

CHECKLIST OF THE VASCULAR PLANTS OF CRAWFORD COUNTY, PENNSYLVANIA

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ABSTRACT

Crawford County has been botanized since the early 1800s; however, a checklist of the county's vascular flora has not previously been compiled. A search of herbaria augmented by targeted fieldwork has resulted in a list of 1168 taxa of native and naturalized plants comprising 485 genera and 134 families. The five families, with the largest number of species, are Asteraceae, Poaceae, Cyperaceae, Rosaceae, and Liliaceae. *Carex*, *Potamogeton*, *Polygonum*, *Salix*, and *Rubus*, are the five largest genera. There are approximately 208 non-native species that have been introduced mainly from Europe and Eurasia. This checklist recognizes 10 species of Lycophytes, 46 species of Pteridophytes, 7 species of Gymnosperms and 1105 species of Angiosperms. Ninety-seven species have global or state ranking.

RESUMEN

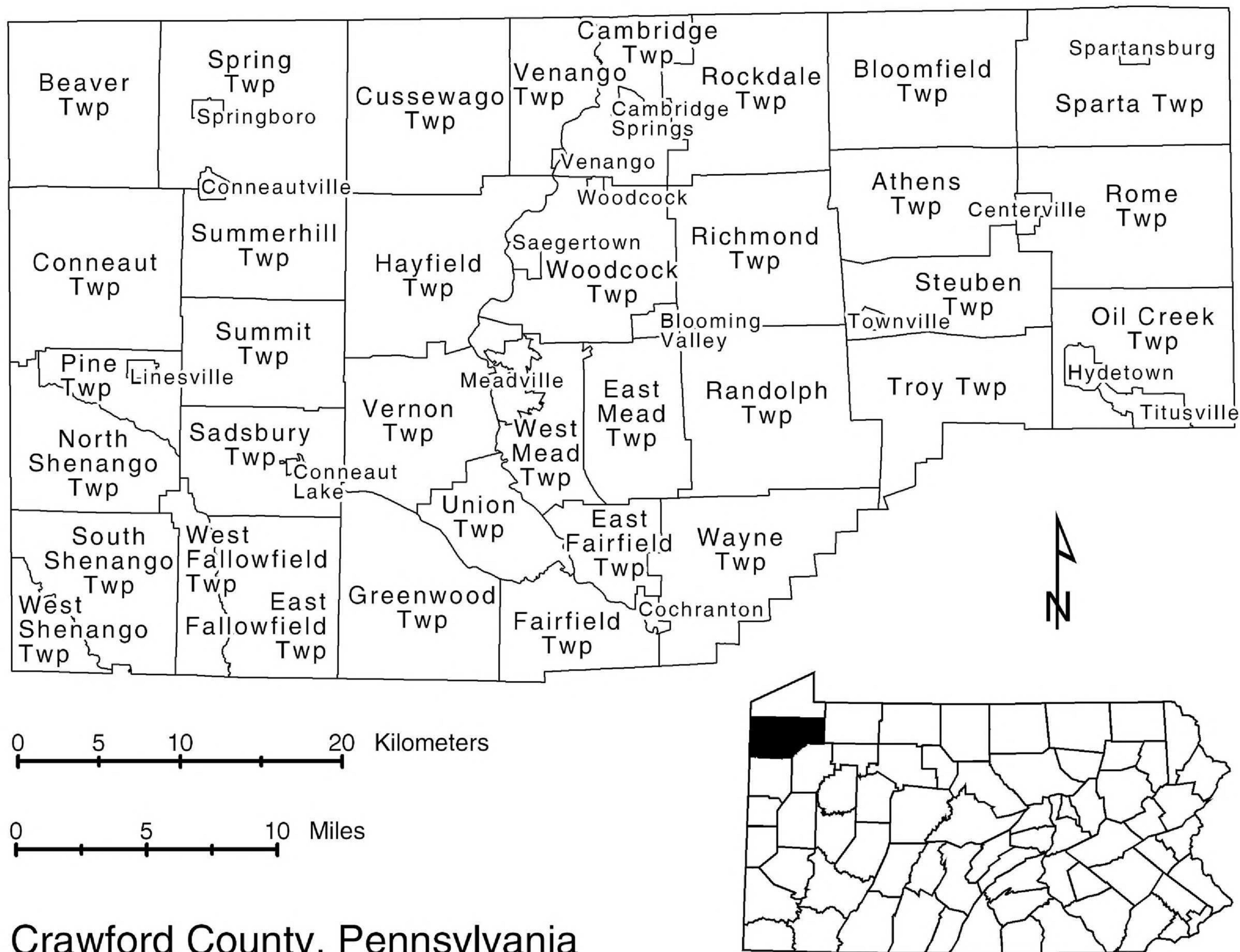
El Condado de Crawford, se localiza en el estado de Pennsylvania. Este condado es considerado una de las áreas más diversas del estado, sin embargo hasta ahora no ha sido completado un catálogo. Este catálogo contiene familias, géneros, y taxa específicos que están ordenados alfabéticamente en los grupos de plantas vasculares tales como Pteridofitas, Gimnospermas y Angiospermas. Esta lista incluye los nombres de especies nativas y naturalizadas conocidas que ocurren en el Condado de Crawford. Se encontraron un total de al menos 134 familias, 485 géneros, y 1168 especies. Las cinco familias mayores, por el número de especies, fueron Asteraceae, Poaceae, Cyperaceae, Rosaceae y Liliaceae. Los seis géneros mayores, por el número de especies, fueron *Carex*, *Potamogeton*, *Polygonum*, *Salix* y *Rubus*.

INTRODUCTION

Even though Pennsylvania lacks checklists for most of its counties, the vascular flora known thus far is quite diverse. Rhoads and Klein (1993) reported 3318 taxa of vascular plants for the state, including 2076 native and 1242 introduced. Approximately 25 of Pennsylvania's 67 counties have floras completed, but some are unpublished theses and surveys and therefore unavailable to the public. The exact number of genera and species in the flora of Crawford County was not previously known because a checklist had never been compiled. Such checklists provide baseline information that can be used to monitor environmental changes and guide conservation decisions.

Site Description

Crawford County is located in the northwestern corner of Pennsylvania, adjacent to Ohio (Fig. 1). It is bordered by the counties of Erie to the north, Warren to the east, Venango to the southeast, and Mercer to south. Named for Colonel William Crawford on March 12, 1800, the county contains approximately 2,690 sq. km. Crawford County receives total annual precipitation of approximately 97 cm in its southwestern region and 112 cm in its northwestern region; 55% of this precipitation usually falls between April and September. Average season snowfall is 178 cm in the southwestern area, 230 to 240 cm in the central area, and more than 300 cm in the northeastern area. The last frost of the season is usually around May 15th and the first frost of the season around October 6th. The length of the growing season, from the last killing



Crawford County, Pennsylvania

FIG. 1 Top: Crawford County, Pennsylvania and townships.

frost in spring to the first killing frost in autumn, ranges from 145 to 150 days in the southwestern region to 130 to 135 days in the northeastern region (USDA 1979).

The soils of the county consist mainly of the following 7 series, covering at least 1,963 sq. km., or 75% of Crawford County: Venango, Cambridge, Frenchtown, Holly, Red Hook, Sheffield, and Alden.

The Venango Series consists of nearly level upland flats, to knobs and side slopes of valleys that make up about 29% of the county. These soils are weathered glacial till that contain sandstone, siltstone, and shale. They have very slow permeability and a moderate available water capacity. Most areas are cleared and used for crops or pasture or are idle.

The Cambridge Series consists of nearly level areas to upland knobs, side slopes of valleys, and crests of slopes that make up about 13% of the county. These soils are weathered from glacial till that contains sandstone, siltstone, and shale. They have slow permeability and a moderate available water capacity. Most of the area is used for crops or pasture, but some land is wooded or idle.

The Frenchtown Series consists of nearly level and gently sloping areas that make up about 12% of the county. These soils are weathered from glacial till that contains sandstone, shale, and some crystalline rocks. They have slow permeability and a moderate available water capacity. Most of the area is wooded but some areas are idle or used for crops or pasture land.

The Holly Series consists of nearly level soils that are on floodplains of major stream valleys that make up about 9% of the county. These soils are weathered from recent stream deposits. They have moderate slow

permeability and a moderate to high available water capacity. Most of the area is used for pasture land but some areas are woodland or idle or used for crops.

The Red Hook Series consists of nearly level to gently sloping soils on terraces in stream valleys that make up about 4% of the county. These soils are weathered from glacial outwash. They have moderate permeability and a moderate to high available water capacity. Most of the areas are used for woodland, pasture, or crops or are idle.

The Sheffield Series consists of poorly drained, nearly level soils that make up about 4% of the county. These soils are weathered from glacial till that contains sandstone, shale, and some limestone. They have very slow permeability and a moderate available water capacity. Most areas are woodlands but some contain crops, pasture, or are idle.

The Alden Series consists of nearly level soils with slight depressions that make up about 4% of the county. These soils are weathered from glacial till and local alluvium. They have low permeability and high available water capacity. Most of the areas are woodlands, but pasture and idle lands are also present.

Crawford County is part of the Northwestern Glaciated Plateau section of the Appalachian Plateau Province. The Northwestern Glaciated Plateau section consists of broad, rounded uplands cut by long, linear valleys. The uplands are transected by flat-floored, narrow to wide valleys and are separated from adjacent uplands by steep slopes on one or both sides of the valley. The valleys are oriented northwest-southeast and are linear with the valley floors often containing wetlands. Elevation ranges from 900 to 2,200 feet (USDA 1979).

Crawford County contain stands of old growth, timber that has been logged very little or never. Old growth makes up less than 5% of the forests remaining in the United States and contains unique trees that make a significant contribution to forest biodiversity. One site is the Tryon-Weber Woods, which has 40 acres of rare hardwood old growth, containing American beech and sugar maples. This type of forest is the only remaining stand in Pennsylvania. During early settlement, most of Pennsylvania was covered with Eastern hemlock, white pine, and mixed hardwoods. From then until the early 1900s forests were logged and as the forests were clear-cut, fast growing species quickly regenerated. The forest structure since then has shifted to mixed hardwoods.

The effects of herbivory on individual species and isolated populations have been documented for Crawford County; region wide effects on the flora are evident but not well documented. Over time, selective browsing by densely populated deer can result in reduced species richness and altered species composition, with dominance by a few non-preferred and browsing-resilient species. Unpalatable and browsing-resilient species become abundant and can interfere with the reestablishment of preferred and less browsing-resilient species. Overall, heavy browsing by deer in woody plant communities can change the trajectory of forest vegetation development. Whether these changes for Crawford County are permanent is a matter of scientific debate and will most likely be determined in due time and with additional studies.

Crawford County contains several major watersheds, which contain large wetland areas. Several major watersheds include the Shenango River Watershed, French Creek Watershed, Oil Creek Watershed and the Conneaut Creek Watershed.

The Crawford County area of the Shenango Creek Watershed comprises 120,700 acres. The tributaries of Shenango Creek in Crawford County include Paden Creek, Linesville Creek and Crooked Creek. The watershed includes a major impoundment, Pymatuning Lake, which is the largest man-made reservoir in Pennsylvania. Pymatuning Lake drains into the Shenango system from two outlets. The first is Crooked Creek in Crawford County, which flows southward through the Pymatuning Marsh and the second is the Shenango River, which flows southward out of the western lobe of the lake between South and West Shenango Townships. Two other features within the Crawford County portion of the Shenango River Watershed are Crystal Lake and Dollar Lake. Both Crystal and Dollar Lakes are glacial kettle lakes formed during the last Ice Age.

The French Creek Watershed encompasses 1270 sq. mi. in area; with approximately 41% of Crawford

County lying therein. Wetlands, such as marshes, swamps, and fens are all found within the French Creek watershed. Conneaut Marsh is an example of a wetland that works to control flooding, filter excess nutrients in the water and provide habitats to several aquatic species. French Creek contains major waterways and many smaller streams. The area within the watershed has much overland flow, which picks up pollutants. Consequently one of the major threats to the French Creek watershed is non-point source pollution. However, to date it has been characterized as having very good to excellent water quality. The watershed is hailed as one of the most ecologically diverse systems in Pennsylvania.

The Oil Creek Watershed is located in the eastern part of Crawford County. Oil Creek flows mainly within Venango, Crawford and Warren Counties and is approximately 340 sq. mi. Crawford County comprises 167 sq. mi. of the watershed with dramatic topography of forested hillsides and clean clear streams.

The Conneaut Creek Watershed flows northward into Lake Erie near Conneaut, Ohio. The watershed takes in approximately 96 sq. mi. Some streams include Main Branch, Middle Branch, and East Branch of Conneaut Creek and Stone Run. Conneaut Creek Watershed is located in Beaver, Spring, Conneaut, Summerhill and Summit Townships in Crawford County.

History

Initially the Seneca Indians dominated the region. The French arrived in 1748 and formed a short portage between Presque Isle and Le Boeuf until 1758. Europeans did not settle the land again until 1788, when a small party came out from Northumberland County and began to build an establishment where Meadville now stands.

On March 12th of 1800 the Allegheny Legislature passed an act separating Crawford, Mercer, Venango, Warren, and Erie counties from the territory of Allegheny County. Crawford County was named in honor of Col. William Crawford, a staunch defender of the white settlers against Indian attacks.

French Creek, which flows from north to south, was the chief route for shipping local lumber to Pittsburgh. The only other means of transportation was horse and wagon. In 1826 Major Douglass made surveys for the development of a canal crossing to link the north to the south; this was the first constructed transportation route in the county. The canal, called the Feeder Canal, was approximately 22 miles long. It was completed in 1834, and canal boats began operating between Bemus town Dam and Conneaut Lake.

Before the 1800s there were no roads at all. Until the Erie and Waterford Turnpike Company was chartered in 1805, the settlers would just make their way through the woods. The Meadville-Waterford-Erie Turnpike was constructed between 1806 and 1809 and used for thirty-five years until it became the Susquehanna and Waterford Turnpike. By 1820 this road extended from Waterford to Bellefonte in Centre County and by 1824 to Philadelphia. The Turnpike was used from 1824 until it was abandoned in 1845. The Mercer and Meadville Turnpike was completed in 1821 and is still known to county residents as the Mercer Pike. In 1859 Col. E.L. Drake successfully drilled a well that produced oil in eastern Crawford County. This development brought prosperity and railroads to Titusville.

The lack of adequate shipping facilities had hindered the development of local manufacturing as well as the marketing of local produce outside the county. The completion of Atlantic and Great Western Railways of Pennsylvania (now the Erie Railroad) to Meadville in 1862 stimulated economic growth. In 1913 Col. Lewis Walker purchased a small enterprise, first called the Automatic Hook and Eye Company and later Talon, Inc., which eventually made Meadville the zipper capital of the world. Railroad construction boomed from 1860 to 1866. By 1871 tracks ran from Bloomfield, Steuben, Troy, and Oil Creek to Titusville and became part of the Buffalo, New York, and Philadelphia Line. Today Crawford County has more miles of railroad than any county in Pennsylvania.

Industry developed gradually, and today most boroughs have manufacturing enterprises that provide substantial employment. The five principal industries are agriculture, gas and oil production, textiles and textile products, and metals and metal products, and allied products. Today about 40% of Crawford County is farmed, 46% is used for commercial woodland, and the rest is being developed for urban use or recreation. Dairying is the primary farming; Crawford is one of Pennsylvania's top 10 milk-producing counties.

Principal crops are corn, wheat, oats, and hay. Lumber, pulpwood, maple syrup, and Christmas trees from the woodland areas also generate income. Besides agricultural and industry, a thriving resort business attracts thousands of summer visitors to the recreational facilities of Conneaut Lake, Pymatuning Reservoir, Cambridge Springs, and Canadohta Lake (Bates 1885).

In 1800 the county population was approximately 2,345; according to the census of 2000, Crawford County has 90,366 residents (USDA (1979, 2000)).

Major Collectors

Collecting in Crawford County for the Carnegie Museum Herbarium began in the early 1800s and has continued to the present. Most of the collectors have been members of the Botanical Society of Western Pennsylvania and the staff of the Section of Botany at Carnegie Museum.

Botanists who have made significant contributions to the knowledge of the Crawford County are: J.K. Bissell, J.A. Isaac, L. Speedy, R.C. Leberman, S.P. Grund and O.E. Jennings.

METHODS

This checklist was compiled by searching the herbaria of the Carnegie Museum of Natural History (CM) and the Cleveland Museum of Natural History (CLM) for Crawford County specimens. In addition, fieldwork was conducted targeting underrepresented areas of the county. Most of the collections were made during the last two years, but several specimens date back as far as 1881 and 1882. The majority of the specimens are deposited at the Carnegie Museum of Natural History (CM). Herbarium collection information was obtained from the Morris Arboretum (MOAR) and the Cleveland Museum of Natural History (CLM) for 189 samples. Other herbaria that were examined for specimens include the Academy of Natural Sciences of Philadelphia. Rhoads and Block (2000) was the primary source for plant identification. For generic and species names, we have generally followed the Synthesis of North American Flora (Kartesz 1999). Authorities are abbreviated for the majority of taxa according to Brummitt and Powell (1992).

RESULTS AND DISCUSSION

This list includes the names of all native and naturalized species known to occur in Crawford County. It includes a total of 134 families, 485 genera, and 1168 species. The five families with the largest number of species, are Asteraceae, Poaceae, Cyperaceae, Rosaceae, and Liliaceae. *Carex*, *Potamogeton*, *Polygonum*, *Salix* and *Rubus*, are the largest genera. This checklist recognizes 10 species of Lycophytes, 46 species of Pteridophytes, 7 species of Gymnosperms and 1105 species of Angiosperms. There are approximately 208 non-native species that have been introduced mainly from Europe and Eurasia. Ninety-seven species have global or state ranking.

Of the 97 plants that have global or state ranking only three taxa have a global ranking of G3 or vulnerable status (*Potamogeton hillii*, *Poa paludigena*, and *Platanthera leucophaea*). The remaining 94 plants are either a G4 or G5 status, indicating an apparently secure or secure condition globally.

The genus *Potamogeton* is in the family Potamogetonaceae. *Potamogeton hillii* is one of the smaller linear-leaved pondweeds and can be difficult to recognize. This herbaceous perennial is totally submerged except for the flowering spike. The leaves range from 1.5-2.0 mm wide and are bristle-tipped, and 3-veined. The flowers are arranged in very short, few flowered spikes which are nearly globose. It occurs in cold, clear, slow-moving water in streams, ponds, and beaver ponds with a muddy substrate.

Poa is part of the grass family (Poaceae). Most members of this genus are very similar and require microscopic identification of the flower parts to identify. *Poa paludigena* is a perennial with culms forming loose clumps. Culm internodes are terete with leaf-sheaths scaberulous. Leaf blades are erect and 0.3-2 mm wide. The inflorescence is a panicle, with branches in pairs. Spikelets are comprised of 2-5 fertile florets and are oblong and laterally compressed. Florets are slightly woolly. It typically grows in moist, open areas such as meadows or moist woods and can be found among sphagnum or other mosses. This species can be easily overlooked or misidentified due to its similarity to closely related species.

Platanthera is a member of the Orchid family. The specific epithet *leucophaea* refers to the off-white color of the flowers. This species forms a cluster of fleshy thickened roots at the base. The 2-5 leaves are lanceolate with the bases sheathing the stem. The inflorescence is a raceme of 5-20 flowers, creamy-white and strongly fragrant at dusk. The basal petal, the labellum, is tripartite and fringed. It is found almost exclusively in moist prairies or open sphagnum bogs. Currently it is found in less than sixty sites in the U.S., many with only a few individuals.

There are four taxa in the Crawford County flora that are listed by the Pennsylvania Department of Agriculture (2004) as noxious weeds: *Cirsium arvense* (canadian thistle), *Cirsium vulgare* (bull or spear thistle), *Lythrum salicaria* (purple loosestrife), and *Rosa multiflora* (multiflora rosa). Other species considered invasive in our native ecosystems are *Acer platanoides* (Norway maple), *Lonicera japonica* (Japanese honeysuckle), *Phragmites australis* (Common reed), *Polygonum cuspidatum* (Japanese knotweed), *Elaeagnus umbellata* (Autumn olive), *Lonicera morrowii* (Morrow's honeysuckle), and *Lonicera tatarica* (Tatarian honeysuckle) (DCNR 2000).

While this checklist is probably not all-inclusive of every species in Crawford County, it is the most comprehensive list presently available.

ANNOTATED CHECKLIST OF THE SPECIES OF CRAWFORD COUNTY, PENNSYLVANIA

Taxa are listed according to the following format: taxon name, author(s), {(year) collector and number} **global: state ranking [Synonyms]** and non-native source. We follow the state (**S**) and global (**G**) ranking systems developed by The Nature Conservancy (1996 version). The global numbers are designated from **1** (critically imperiled) to **5** (secure). Other notations include **SH**, which denotes historical occurrence, and **SR**, which indicates reported without persuasive documentation. Synonyms are included for names not in common usage in the state or regional manuals. In cases where there was more than one specimen present in the collection, recent collections of current known collectors for the western Pennsylvania region were cited.

Families, genera, and specific and infraspecific taxa are arranged alphabetically within vascular plant groups Angiosperms, Gymnosperms, Lycophytes, and Pteridophytes.

ANGIOSPERMS

Acanthaceae

Justicia americana (L.) Vahl, 1988 J.K. Bissell et al. 88:101

Aceraceae

Acer negundo L., 1997 R.C. Leberman. s.n.
Acer nigrum Michx. f., 1922 O.E. Jennings. s.n.
Acer pensylvanicum L., 2003 R Coxe and M. Bradburn s.n.
Acer platanoides L., 1997 R.C. Leberman s.n. Europe
Acer rubrum L. var. *rubrum*, 2005 L. Speedy LSB329
Acer rubrum L. var. *trilobum* Torr. & A. Gray ex K. Koch, 1952
 L.K. Henry and W.E. Baker s.n.
Acer saccharinum L., 2003 S. Ernst et al. 71
Acer saccharum Marsh. var. *saccharum*, 1955 L.K. Henry s.n.
Acer spicatum Lam., 1932 W.R. Van Dersal 1866

Acoraceae

Acorus americanus (Raf.) Raf., 2002 J.K. Bissell 2002:134 G5:S1
Acorus calamus L., 1999 J.K. Bissell and B. Danielson 1999:194
 Europe

Alismataceae

Alisma subcordatum Raf., 2003 J.K. Bissell 2003:148
Sagittaria latifolia Willd., 2004 S.P. Grund and L. Miller 3487
Sagittaria rigida Pursh, 2001 J.K. Bissell 2001:149

Amaranthaceae

Amaranthus albus L., 1918 E.M. Gress s.n.
Amaranthus blitum L., 2005 R. Thompson 05-504 Tropical America
Amaranthus hybridus L., 1947 H.A. Wahl 4076
Amaranthus retroflexus L., 1948 S. Tisherman s.n. Tropical America

Anacardiaceae

Rhus glabra L., 2004 J.A. Isaac 17601
Rhus typhina L., 1997 R.C. Leberman s.n.
Toxicodendron radicans (L.) Kuntze, 1997 J.A. Isaac 9878
Toxicodendron vernix (L.) Kuntze, 2005 L. Speedy LSB1565

Annonaceae

Asimina triloba (L.) Dunal, 1955 D.L. Pearn s.n.

Apiaceae

Angelica atropurpurea L., 1928 J.A. Murray s.n.
Angelica triquinata Michx., 1980 C.E. Jenkins et al. 2777
Angelica venenosa (Greenway) Fern, 1901 J.A. Shafer s.n.
Chaerophyllum procumbens (L.) Crantz, 2004 S.P. Grund and L. Miller 3534
Cicuta bulbifera L., 2005 L. Speedy, M. Bowers and M. Fodse LSB1608
Cicuta maculata L., 2000 J.A. Isaac and C.F. Chuey 13168

- Conium maculatum* L., 1980 F.Q. Jenkins and C.E. Jenkins
2836 Europe
- Cryptotaenia canadensis* (L.) DC., 2004 J.A. Isaac 17468
- Daucus carota* L., 2000 J.A. Isaac and C.F. Chuey 13170
Eurasia
- Erigenia bulbosa* (Michx.) Nutt., 2004 J.K. Bissell 2004:006
G5:S2
- Heracleum maximum* Bartr., 2000 J.A. Isaac and C.F. Chuey
13167
- Hydrocotyle americana* L., 2004 J.K. Bissell 2004:114
- Osmorhiza claytonii* (Michx.) C.B. Clarke, 1972 W.E. Baker s.n.
- Osmorhiza longistylis* (Torr.) DC., 1972 W.E. Baker s.n.
- Pastinaca sativa* L., 1968 R.C. Leberman s.n. Eurasia
- Sanicula canadensis* L. var. *canadensis*, 2004 J.A. Isaac 17678
- Sanicula marilandica* L., 1989 J.K. Bissell and B. Danielson
1989:112
- Sanicula odorata* (Raf.) K.M. Pryer & L.R. Phillippe, 1984 J.K.
Bissell 84:120
- Sium suave* Walt., 2005 L. Speedy LSB1557
- Taenidia integerrima* (L.) Drude, 1972 W.E. Baker s.n.
- Thaspium barbinode* (Michx.) Nutt., 1997 R.C. Leberman s.n.
- Zizia aurea* (L.) W.D.J. Koch, 1962 W.E. Baker s.n.
- Apocynaceae**
- Apocynum androsaemifolium* L., 1997 R.C. Leberman s.n.
- Apocynum cannabinum* L., 2005 L. Speedy 761
- Vinca minor* L., 1919 H.W. Mossman s.n. Europe
- Aquifoliaceae**
- Ilex montana* Torr. & A. Gray ex Gray, 1975 R.C. Leberman s.n.
- Ilex verticillata* (L.) A. Gray, 2005 L. Speedy LSB1091
- Nemopanthus mucronatus* (L.) Loes., 2004 J.A. Isaac 17593
- Araceae**
- Arisaema dracontium* (L.) Schott, 1995 R.C. Leberman. s.n.
- Arisaema triphyllum* (L.) Schott ssp. *stewardsonii* (Britt.)
Huttleston, 1994 J.D Wagner et al. 114
- Arisaema triphyllum* (L.) Schott spp. *triphyllum*, 2004 S.P. Grund
and. L. Miller 3642
- Arisaema triphyllum* (L.) Schott ssp. *pusillum* (Peck) Huttleston,
1914 C.A. Darling s.n.
- Calla palustris* L., 2004 J.A. Isaac 18474
- Peltandra virginica* (L.) Schott, 2005 L. Speedy, M. Bowers, and
M. Fodse LSB1607
- Symplocarpus foetidus* (L.) Salisb. ex Nutt., 2005 L. Speedy
LSB337
- Araliaceae**
- Aralia hispida* Vent., 1962 L.K. Henry s.n.
- Aralia nudicaulis* L., 1996 R.C. Leberman s.n.
- Aralia racemosa* L., 1996 R.C. Leberman s.n.
- Aralia spinosa* L., 2005 R. Thompson 05-858
- Panax quinquefolium* L., 1962 R.C. Lebermans.n.
- Panax trifolius* L., 2005 L. Speedy LSB349
- Aristolochiaceae**
- Asarum canadense* L., 1972 W.E. Baker s.n.
- Asclepiadaceae**
- Asclepias exaltata* L., 1981 R.C. Leberman s.n.
- Asclepias incarnata* L. ssp. *incarnata*, 2005 L. Speedy, J. Bissell,
M. Bowers and T. Pearson LSB1583
- Asclepias syriaca* L., 2004 J.A. Isaac 17609
- Asteraceae**
- Achillea millefolium* L., 2004 J.A. Isaac and. R. Coxe 17590
Eurasia
- Ageratina altissima* (L.) King & H.E. Robins. var. *altissima*, 1998
R. Leberman s.n.
- Ambrosia artemisiifolia* L. var. *elatior* (L.) Descourtils, 1928 J.A.
Murray s.n.
- Ambrosia trifida* L. var. *trifida*, 1928 J.A. Murray s.n.
- Anaphalis margaritacea* (L.) Benth., 1968 W.E. Baker s.n.
- Antennaria howellii* Greene ssp. *neodoica* (Greene) Bayer, 1950
L.K. Henry and W.E. Baker s.n.
- Antennaria neglecta* Greene, 1984 A.W. Cusick 23365
- Antennaria parlinii* Fern. ssp. *parlinii* Fern., 1971 W.E. Baker
s.n.
- Anthemis arvensis* L., 1980 R.C. Leberman s.n. Europe
- Anthemis cotula* L., 2004 J.A. Isaac 17602 Europe
- Arctium lappa* L., 2000 J.A. Isaac and C.F. Chuey 13172
Eurasia
- Arctium minus* Bernh., 1970 W.E. Baker s.n. Eurasia
- Artemisia vulgaris* L., 1969 W.E. Baker s.n. Eurasia
- Bellis perennis* L., 2004 S.P. Grund and L. Miller 3588 Europe
- Bidens cernua* L., 1991 R.C. Leberman s.n.
- Bidens connata* Muhl. ex Willd., 2005 L. Speedy, J. Bissell, M.
Bowers and T. Pearson LSB1558
- Bidens coronata* (L.) Britt., 2004 J.A. Isaac 18456
- Bidens discoidea* (Torr. & A. Gray) Britt., 2003 J.K. Bissell
2003:172 G5:S3
- Bidens frondosa* L., 1969 W.E. Baker s.n.
- Bidens laevis* (L.) B.S.P., 1868 Thomas C. Porter s.n. G5:S3
- Bidens tripartita* L., 2004 J.A. Isaac et al. 17722
- Bidens vulgata* Greene, 1944 O.E. Jennings s.n.
- Centaurea biebersteinii* DC., 2003 S. Ernst 32 Exotic
- Cichorium intybus* L., 1928 J.A. Murray s.n. Europe
- Cirsium arvense* (L.) Scop., 1980 C.E. Jenkins and F.Q. Jenkins
2883 Eurasia
- Cirsium muticum* Michx., 1987 J.K. Bissell and B. Danielson
1987:269
- Cirsium pumilum* (Nutt.) Spreng., 1928 J.A. Murray s.n.
- Cirsium vulgare* (Savi) Ten., 1969 W.E. Baker s.n. Eurasia
- Conyza canadensis* (L.) Cronq. var. *canadensis*, 1997 W.E.
Tomon W.E. s.n.
- Coreopsis tripteris* L., 1994 K. Marsh et al. s.n.
- Crepis capillaris* (L.) Wallr., 2004 J.A. Isaac and R. Coxe 17589
Europe
- Doellingeria infirma* (Michx.) Greene, 2005 L. Speedy et al.
1569 s.n. [Aster *infirmitus* Michx.]
- Doellingeria umbellata* (P. Mill.) Nees var. *umbellata*, 2004 S.P.
Grund and L. Miller 3668
- Erechtites hieraciifolia* (L.) Raf. ex DC. var. *hieraciifolia*, 1992 K.
Marsh et al. s.n.
- Erigeron annuus* (L.) Pers., 2004 J.A. Isaac 17699
- Erigeron philadelphicus* L. var. *philadelphicus*, 1972 W.E. Baker
s.n.
- Erigeron pulchellus* Michx. var. *pulchellus*, 1982 W.E. Baker and
T.J. Grisez s.n.
- Erigeron strigosus* Muhl. ex Willd. var. *strigosus*, 1928 J.A.
Murray s.n.

- Eupatorium altissimum* L., 1998 K. Marsh s.n.
- Eupatorium fistulosum* Barratt, 1984 J.K. Bissell 1984:119
- Eupatorium maculatum* L. var. *maculatum*, 2005 L. Speedy, J. Bissell, M. Bowers and T. Pearson LSB1566
- Eupatorium perfoliatum* L. var. *perfoliatum*, 2005 L. Speedy and L. Armstrong LSB1598
- Eurybia chlorolepis* (Burgess) Nesom, 1997 J.D. Wagner and G. Podniesinski 1780 [*Aster chlorolepis* Burgess]
- Eurybia macrophylla* (L.) Cass, 1991 R.C. Leberman s.n.
- Eurybia schreberi* (Nees) Nees, 1997 J.K. Bissell et al. 1997:182 [*Aster schreberi* Nees]
- Euthamia graminifolia* (L.) Greene var. *graminifolia*, 2004 S.P. Grund and L. Miller 3601
- Galinsoga quadriradiata* Cav., 1994 K. Marsh and G. Marsh s.n. Central & South America
- Gamochaeta purpurea* (L.) Cabrera, 1901 J.A. Shafer s.n.
- Gnaphalium uliginosum* L., 1962 L.K. Henry s.n. Europe
- Hasteola suaveolens* (L.) Pojark., 1998 J.K. Bissell 1998:074
- Helenium autumnale* L., 1951 L.K. Henry and W.E. Baker s.n.
- Helenium flexuosum* Raf., 2006 S.P. Grund 4137
- Helianthus microcephalus* Torr. & Gray, G.W. Clinton s.n. G5: S3
- Helianthus tuberosus* L., 1970 W.E. Baker s.n.
- Heliopsis helianthoides* (L.) Sweet, var. *helianthoides*, 1983 R.C. Leberman s.n.
- Hieracium aurantiacum* L., 2004 J.A. Isaac 17489 Europe
- Hieracium caespitosum* Dumort., 2004 J.A. Isaac 17460 Europe
- Hieracium gronovii* L., 1965 D.L. Pearn s.n.
- Hieracium paniculatum* L., 1887 B.H. Patterson s.n.
- Hieracium pilosella* L. var. *pilosella*, 2004 J.A. Isaac 17487 Europe
- Hieracium scabrum* Michx. var. *scabrum*, 1928 J.A. Murray s.n.
- Hieracium venosum* L., 1996 R.C. Leberman s.n.
- Hypochaeris radicata* L., 1980 R.C. Leberman s.n. Eurasia
- Inula helenium* L., 2004 J.A. Isaac 17686 Europe
- Krigia biflora* (Walt.) Blake var. *biflora*, 2004 J.A. Isaac 17481
- Lactuca biennis* (Moench) Fern., 1951 L.K. Henry and W.E. Baker s.n.
- Lactuca canadensis* L., 1959 L.K. Henry and F.H. Beer s.n.
- Lactuca floridana* (L.) Gaertn. var. *floridana*, 1970 W.E. Baker s.n.
- Lactuca saligna* L., 1970 W.E. Baker s.n. Europe
- Lactuca sativa* L., 2003 S. Ernst 117 Exotic
- Leucanthemum vulgare* Lam., 2004 J.A. Isaac and R. Coxe 17585 Exotic
- Matricaria discoidea* DC., 2004 J.A. Isaac 17453 Exotic
- Megalodonta beckii* (Torr. ex Spreng.), Greene 2003 S. Ernst et al. 102 G4G5:S1
- Packera aurea* (L.) A. & D. Löve, 2005 L. Speedy LSB346 [*Senecio aureus* L.]
- Packera obovata* (Muhl. ex Willd.) W.A. Weber & A. Löve, 1971 W.E. Baker s.n. [*Senecio obovatus* Muhl. ex Willd.]
- Petasites hybridus* (L.) P.G. Gaertn., B. Mey. & Scherb., 1968 M. Bayliss s.n. Europe
- Prenanthes alba* L., 1994 K. Marsh et al. s.n.
- Prenanthes altissima* L., 2005 R. Thompson 05-1041
- Pseudognaphalium macounii* (Greene) Kartesz, 2002 J.A. Isaac 15721
- Pseudognaphalium obtusifolium* (L.) Hilliard & Burtt ssp. *obtusifolium*, 1997 T.J. Tomon s.n.
- Rudbeckia hirta* L. var. *hirta*, 1980 C.E. Jenkins 2851
- Rudbeckia hirta* L. var. *pulcherrima* Farw., 1952 L.K. Henry and F.H. Beer s.n.
- Rudbeckia laciniata* L. var. *laciniata*, 2004 J.A. Isaac 18457
- Sericocarpus asteroides* (L.) B.S.P., 1928 J.A. Murray s.n.
- Silphium perfoliatum* L. var. *perfoliatum*, 1994 K. Marsh et al. s.n.
- Solidago altissima* L., 1997 J. Long s.n.
- Solidago bicolor* L., 1970 W.E. Baker s.n.
- Solidago caesia* L., 1970 W.E. Baker s.n.
- Solidago canadensis* L. var. *canadensis*, 2005 L. Speedy LSB1571
- Solidago flexicaulis* L., 1969 W.E. Baker s.n.
- Solidago gigantea* Ait., 2005 L. Speedy LSB1119
- Solidago juncea* Ait., 1959 L.K. Henry and F.H. Beer s.n.
- Solidago nemoralis* Ait., 1991 R.C. Leberman s.n.
- Solidago patula* Muhl. ex Willd. var. *patula*, 2004 J.A. Isaac 18440
- Solidago rugosa* P. Mill var. *aspera* (Ait.) Cronq., 1949 O.E. Jennings and C.M. Boardman s.n.
- Solidago rugosa* P. Mill var. *rugosa*, 2005 L. Speedy LSB1559
- Solidago uliginosa* Nutt. var. *uliginosa*, 1914 J. Bright s.n. G4G5:S3
- Solidago uliginosa* Nutt. var. *linoides* (Torr. & A. Gray) Fern., 1940 J. Wurdack Jr. s.n. G4G5:SH
- Sonchus arvensis* L. ssp. *arvensis*, 2004 J.A. Isaac 17706 Europe
- Sonchus arvensis* L. ssp. *uliginosus* (Bieb.) Nyman, 1968 W.E. Baker s.n. Europe
- Sonchus asper* (L.) Hill, 2005 R. Thompson 05-1094 Europe
- Symphyotrichum boreale* (Torr. & A. Gray) A. & D. Löve, 1993 J.K. Bissell and B. Danielson 1993:182 G5:S1
- Symphyotrichum lanceolatum* (Willd.) Nesom ssp. *lanceolatum*, 2002 J.A. Isaac 15713 [*Aster lanceolatus* Willd. ssp. *lanceolatus* var. *lanceolatus*]
- Symphyotrichum lateriflorum* (L.) A. & D. Löve var. *lateriflorum*, 2004 J.A. Isaac 18478 [*Aster lateriflorus* (L.) Britton]
- Symphyotrichum lowrieanum* (Porter) Nesom, 1994 K. Marsh et al. s.n.
- Symphyotrichum novae-angliae* (L.) Nesom, 2004 J.A. Isaac 18477 [*Aster novae-angliae* L.]
- Symphyotrichum pilosum* (Willd.) Nesom var. *pilosum*, 2004 J.A. Isaac 18479 [*Aster pilosus* Willd.]
- Symphyotrichum pilosum* (Willd.) Nesom var. *pringlei* (Gray) Nesom, 1971 W.E. Baker s.n.
- Symphyotrichum praecaltus* (Poir.) Nesom var. *praecaltus*, 1997 J.K. Bissell et al. 1997:077 G5:S3
- Symphyotrichum prenanthoides* (Muhl. ex Willd.) Nesom, 2004 J.A. Isaac 18461 [*Aster prenanthoides* Muhl. ex Willd.]
- Symphyotrichum puniceum* (L.) A. & D. Löve var. *puniceum*, 2005 L. Speedy LSB1617 [*Aster puniceus* L.]
- Symphyotrichum urophyllum* (Lindl.) Nesom, 1971 W.E. Baker s.n.

- Symphyotrichum × longulum* (Sheldon) Nesom [boreale × puniceum], 1993 J.K. Bissell and B. Danielson 1993:188
- Tanacetum vulgare* L., 1935 A.G. Dickey s.n. Europe
- Taraxacum officinale* G. Weber ex Wiggers ssp. *officinale*, 1997 J. Long s.n. Eurasia
- Tragopogon dubius* Scop., 2004 J.A. Isaac and R. Coxe 17576 Europe
- Tragopogon porrifolius* L., 1947 W.E. Bakers.n. Europe
- Tragopogon pratensis* L., 2004 J.A. Isaac 17716 Europe
- Triadenum fraseri* (Spach) Gleason, 1994 J.D. Wagner 664
- Triadenum virginicum* (L.) Raf., 2005 L. Speedy LSB1623
- Tussilago farfara* L., 2004 J.A. Isaac 17317 Eurasia
- Verbesina alternifolia* (L.) Britt. ex Kearney, 1946 N. Russell NR-2804
- Vernonia gigantea* (Walt.) Trel., 1997 J.A. Isaac 9872
- Balsaminaceae**
- Impatiens capensis* Meerb., 2005 L. Speedy LSB1114
- Impatiens pallida* Nutt., 1940 R.W. Little s.n.
- Berberidaceae**
- Berberis thunbergii* DC., 2005 R. Thompson 05-1051 Japan
- Berberis vulgaris* L., 2004 J.A. Isaac 18463 Europe
- Caulophyllum thalictroides* (L.) Michx., 2004 J.A. Isaac 17357
- Podophyllum peltatum* L., 1934 O.E. Jennings s.n.
- Betulaceae**
- Alnus incana* (L.) Moench ssp. *rugosa* (Du Roi) Clausen, 2005 L. Speedy, M. Bowers and M. Fodse LSB1618
- Alnus serrulata* (Ait.) Willd., 2005 L. Speedy, M. Bowers and M. Fodse LSB1609
- Betula alleghaniensis* Britt. var. *alleghaniensis*, 2005 L. Speedy LSB341
- Betula alleghaniensis* Britt. var. *macrolepis* (Fern.) Brayshaw, 1930 O.E. Jennings s.n.
- Betula lenta* L., 1950 L.K. Henry and W.E. Baker s.n.
- Betula pendula* Roth, 1952 L.K. Henry and F.H. Beer s.n. Eurasia
- Betula populifolia* Marsh., 1997 R.C. Leberman s.n.
- Corylus americana* Walt., 1998 R.C. Leberman s.n.
- Ostrya virginiana* (P. Mill.) K. Koch var. *virginiana*, 1997 R.C. Leberman s.n.
- Boraginaceae**
- Cynoglossum officinale* L., 1915 O.E. Jennings and G.K. Jennings s.n. Eurasia
- Cynoglossum virginianum* L. var. *virginianum*, 1925 O.E. Jennings s.n.
- Echium vulgare* L., 2004 J.A. Isaac and R. Coxe 17575 Europe
- Hackelia virginiana* (L.) I.M. Johnst., 2005 R. Thompson 05-776
- Lappula squarrosa* (Retz.) Dumort., 1914 J. Bright s.n. Eurasia
- Myosotis laxa* Lehm., 2004 S.P. Grund and L. Miller 3488
- Myosotis scorpioides* L., 2005 L. Speedy LSB741 Europe
- Symphytum officinale* L., 1928 J.A. Murray s.n. Eurasia
- Brassicaceae**
- Alliaria petiolata* (Bieb.) Cavara & Grande, 2005 R. Thompson 05-653 Europe
- Arabidopsis thaliana* (L.) Heynh., 2004 J.A. Isaac 17454 Europe
- Arabis glabra* (L.) Bernh., 1905 O.E. Jennings s.n.
- Arabis lyrata* L., 1930 W.R. VanDersal s.n.
- Armoracia rusticana* P.G. Gaertn., B. Mey. & Scherb., 1909 O.E. Jennings s.n. Eurasia
- Barbarea vulgaris* Ait. f., 2005 L. Speedy LSB325 Eurasia
- Brassica juncea* (L.) Czern., 1971 R.C. Leberman s.n. Eurasia
- Brassica nigra* (L.) W.D.J. Koch, 2004 J.A. Isaac 17713 Eurasia
- Brassica rapa* L. var. *rapa*, 1949 L.K. Henry s.n. Europe
- Capsella bursa-pastoris* (L.) Medik., 2004 J.A. Isaac 17352 Eurasia
- Cardamine angustata* O.E. Shulz, 1989 J.K. Bissell et al. 89:021
- Cardamine bulbosa* (Schreb. ex Muhl.) B.S.P., 2005 L. Speedy LSB3360
- Cardamine concatenata* (Michx.) Sw., 2004 J.A. Isaac 17337
- Cardamine diphylla* (Michx.) Wood, 2005 L. Speedy LSB351
- Cardamine douglassii* Britt., 2005 L. Speedy LSB330
- Cardamine pensylvanica* Muhl. ex Willd., 2005 L. Speedy LSB305
- Cardamine pratensis* L. var. *pratensis*, 1994 J.K. Bissell et al. 1994:044 G5T5:S1
- Cardamine rotundifolia* Michx., 1993 J.K. Bissell et al. 93:148
- Draba verna* L., 1958 W.E. Baker s.n. Europe
- Erysimum cheiranthoides* L., 1909 O.E. Jennings s.n. Eurasia
- Erysimum inconspicuum* (S. Watson) MacMill.ill. var. *inconspicuum*, 1951 L.K. Henry s.n.
- Hesperis matronalis* L., 2004 S.P. Grund and L. Miller 3632 Europe
- Lepidium campestre* (L.) Ait. F., 1982 R.C. Leberman s.n. Eurasia
- Lepidium virginicum* L. var. *virginicum*, 1981 W.E. Baker s.n.
- Raphanus raphanistrum* L., 1949 L.K. Henry s.n. Mediterranean
- Raphanus sativus* L., 1914 J. Bright s.n. Mediterranean
- Rorippa nasturtium-aquaticum* (L.) Hayek, 2005 L. Speedy LSB743
- Rorippa palustris* (L.) Bess. ssp. *fernaldiana* (Butters & Abbe) Jonsell, 1995 R.C. Leberman s.n.
- Rorippa palustris* (L.) Bess. ssp. *hispida* (Desv.) Jonsell, 1901 J.A. Shafer s.n.
- Rorippa sylvestris* (L.) Bess., 1995 R.C. Leberman s.n. Europe
- Sisymbrium altissimum* L., 1960 W.E. Baker s.n. Eurasia
- Sisymbrium officinale* (L.) Scop., 1901 J.A. Shafer s.n. Europe
- Thlaspi arvense* L., 1930 O.E. Jennings s.n. Europe
- Cabombaceae**
- Brasenia schreberi* J.F. Gmel., 2004 L. Miller and S.P. Grund 22
- Cabomba caroliniana* Gray var. *caroliniana*, 2003 S. Ernst et al. 68
- Caesalpiniaceae**
- Senna hebecarpa* (Fern.) Irwin & Barneby, 1947 H.A. Wahl 4184
- Callitrichaceae**
- Callitricha heterophylla* Pursh ssp. *heterophylla*, 1991 J.K. Bissell et al. 1991:058
- Callitricha palustris* L., 1988 J.K. Bissell et al. 88:130

Campanulaceae

- Campanula aparinoides* Pursh, 1988 J.K. Bissell et al. 1988:135
Campanula rapunculoides L., 1970 W.E. Baker s.n. Eurasia
Campanulastrum americana (L.) Small., 2002 J.K. Bissell and B. Danielson 2002:156 [*Cyanococcus fascatus* Small]
Lobelia cardinalis L., 1988 J.K. Bissell et al. 1988:135
Lobelia inflata L., 1959 L.K. Henry and F.H. Beer s.n.
Lobelia siphilitica L. var. *siphilitica*, 2004 J.A. Isaac 18460
Lobelia spicata Lam. var. *spicata*, 1922 O.E. Jennings s.n.

Capparaceae

- Polanisia dodecandra* (L.) DC. ssp. *dodecandra*, 1950 W.E. Baker s.n.

Caprifoliaceae

- Diervilla lonicera* P. Mill, 1997 R.C. Leberman s.n.
Lonicera canadensis Bartr. ex Marsh., 1997 J.D. Wagner and G. Podniesinski 1776
Lonicera dioica L., 2004 S.P. Grund and L. Miller 3573
Lonicera morrowii Gray, 2004 S.P. Grund and L. Miller 3616 Japan
Lonicera oblongifolia (Goldie) Hook., 1993 J.K. Bissell and B. Danielson 1993:119 G4:S1
Lonicera tatarica L., 1980 C.E. Jenkins and F.Q. Jenkins 2873 Eurasia
Lonicera villosa (Michx.) J.A. Schultes, 1994 J.D. Wagner 905 G5:S1
Sambucus nigra L. ssp. *canadensis* (L.) R. Bolli, 2005 L. Speedy LSB736
Sambucus racemosa L. var. *racemosa*, 1995 R.C. Leberman s.n.
Triosteum perfoliatum L., 1940 O.E. Jennings s.n.
Viburnum acerifolium L., 2004 J.A. Isaac 17461
Viburnum lentago L., 2005 L. Speedy LSB1129
Viburnum nudum L. var. *cassinoides* (L.) Torr. & A. Gray, 2004 J.A. Isaac 18437 G5:S1
Viburnum opulus L. var. *americanum* Ait., 2004 J.A. Isaac 17503 [*Viburnum opulus* L. ssp. *trilobum* (Marsh.) Clausen] G5T5:S3S4
Viburnum opulus L. var. *opulus*, 2004 J.A. Isaac 17599 Eurasia
Viburnum rafinesquianum J.A. Schultes, 1980 C.E. Jenkins and F.Q. Jenkins 2862
Viburnum recognitum Fern., 1994 J.D. Wagner et al. 93

Caryophyllaceae

- Agrostemma githago* L., 1922 O.E. Jennings s.n. Europe
Arenaria serpyllifolia L., 2004 J.A. Isaac and R. Coxe 17586 Europe
Cerastium fontanum Baumg., 1904 O.E. Jennings s.n. Eurasia
Cerastium glomeratum Thuill., 2000 A.W. Cusick 35372 Eurasia
Cerastium nutans Raf. var. *nutans*, 2004 J.A. Isaac 17709
Dianthus armeria L., 2004 J.A. Isaac and R. Coxe 17583 Europe
Dianthus barbatus L., 1954 W.E. Baker s.n. Eurasia
Moehringia lateriflora (L.) Fenzl, 1993 J.K. Bissell et al. 1993:151
Myosoton aquaticum (L.) Moench, 2004 J.A. Isaac and R. Coxe 17571 Europe

- Paronychia canadensis* (L.) Wood, 1914 C.A. Darling s.n.
Saponaria officinalis L., 1994 K. Marsh et al. s.n. Europe
Silene antirrhina L., 1951 L.K. Henry and W.E. Baker s.n.
Silene dioica (L.) Clairv., 1970 R.C. Leberman s.n. Europe
Silene latifolia Poir. ssp. *alba* (P. Mill.) Greuter & Burdet, 1972

- W.E. Baker s.n. Europe
Silene noctiflora L., J.A. Murray s.n. Europe
Silene vulgaris (Moench) Garcke, 1980 R.C. Leberman s.n. Europe
Stellaria corei Shinners, 1932 W.R. VanDersal 1923
Stellaria graminea L., 2004 J.A. Isaac 17697 Europe
Stellaria longifolia Muhl. ex Willd. var. *longifolia*, 1994 J.D. Wagner 902
Stellaria media (L.) Vill. var. *media*, 1919 H.W. Mossman s.n. Europe
Vaccaria hispanica (P. Mill.) Rauschert, 1868 T.C. Porter s.n. Europe

Celastraceae

- Celastrus scandens* L., 1973 R.C. Leberman s.n.
Euonymus alata (Thunb.) Sieb., 2005 R. Thompson 05-519 China & Japan
Euonymus obovata Nutt., 2001 J.A. Isaac and C.F. Chuey 13648

Ceratophyllaceae

- Ceratophyllum demersum* L., 2004 S.P. Grund and L. Miller 3579
Ceratophyllum echinatum Gray, 2002 J.K. Bissell 2002:128
Ceratophyllum muricatum Cham., 1984 J.K. Bissell 1984:119

Chenopodiaceae

- Atriplex prostrata* Bouchér ex DC., 1887 B.H. Patterson s.n.
Chenopodium album L. var. *album*, 1966 L.K. Henry s.n.
Chenopodium berlandieri Moq. var. *bushianum* (Aellen) Cronq., 1947 H.A. Wahl 4073
Chenopodium botrys L., 1941 W.C. Grimm s.n. Europe
Chenopodium capitatum (L.) Ambrosi, 1909 O.E. Jennings s.n. G5:SH
Chenopodium simplex (Torr.) Raf., 1923 E.M. Gress s.n.

Clusiaceae

- Hypericum ascyron* L., 1998 R. Leberman s.n.
Hypericum ellipticum Hook., 1868 Thomas C. Porter s.n.
Hypericum mutilum L., 1997 J.A. Isaac 9870
Hypericum perforatum L., 2004 S.P. Grund and L. Miller 3516 Europe
Hypericum prolificum L., 2005 L. Speedy LSB1120.
Hypericum punctatum Lam., 2004 S.P. Grund and L. Miller 3626

Commelinaceae

- Tradescantia virginiana* L., 1914 C.A. Darling s.n.

Convolvulaceae

- Calystegia sepium* (L.) R. Br. ssp. *angulata* Brummitt, 2005 L. Speedy, J. Bissell, M. Bowers and T. Pearson
Calystegia sepium (L.) R. Br ssp. *erratica* Brummitt, 1950 L.K. Henry and W.E. Baker s.n.

Cornaceae

- Cornus alternifolia* L. f., 1998 R. Leberman s.n.

- Cornus amomum* P. Mill, 2005 L. Speedy LSB720
Cornus canadensis L., 1988 J.K. Bissell and B. Danielson 1988:035
Cornus florida L., 1988 J.K. Bissell 1988:034
Cornus obliqua Raf., 2005 L. Speedy LSB1128
Cornus racemosa Lam., 2005 L. Speedy LSB1127
Cornus sericea L. ssp. *sericea*, 2005 L. Speedy, M. Bowers and M. Fodse LSB1613
- Crassulaceae**
Sedum acre L., 1995 R.C. Leberman s.n. Eurasia
Sedum ternatum Michx., 1932 W.R. Van Dersal 1940
- Cucurbitaceae**
Echinocystis lobata (Michx.) Torr. & A. Gray, 1991 R.C. Leberman s.n.
Sicyos angulatus L., 1997 J. Long s.n.
- Cuscutaceae**
Cuscuta cephalanthi Engelm., 1988 J.K. Bissell et al. 88:232 G5:SU
Cuscuta gronovii Willd. ex J.A. Schultes, 2005 J.K. Bissell 2005:131
Cuscuta obtusiflora Kunth, 1988 J.K. Bissell and B. Danielson 1988:271
Cuscuta polygonorum Engelm., 1988 J.K. Bissell et al. 88:271 G5:SU
- Cyperaceae**
Bulbostylis capillaris (L.) Kunth ex C.B. Clarke ssp. *capillaris*, 1988 J.K. Bissell et al. 88:270
Carex aestivalis M.A. Curtis ex Gray, 1907 O.E. Jennings s.n.
Carex alata Torr., 2003 J.K. Bissell 2003:082 G5:S2
Carex albicans Willd. ex Spreng. var. *albicans*, 1930 O.E. Jennings s.n.
Carex alburnina Sheldon, 2004 J.A. Isaac 17464
Carex amphibola Steud., 2004 J.A. Isaac 17450
Carex annexans (Bickn.) Bickn., 2004 S.P. Grund and L. Miller 3498
Carex appalachica J. Webber & P.W. Ball, 2005 L. Speedy 1134
Carex arctata Boott ex Hook., 1984 J.K. Bissell 84:103
Carex atlantica Bailey var. *atlantica*, 1991 J.K. Bissell and B. Danielson 1991:071
Carex atlantica Bailey ssp. *capillacea* (Bailey) Reznicek, 1997 J.K. Bissell and G. Buckley 1997:102
Carex baileyi Britt., 1980 R.C. Leberman s.n.
Carex bebbii Olney ex Fern., 1988 J.K. Bissell et al. 88:076 G5:S1
Carex blanda Dewey, 2004 J.A. Isaac and R. Coxe 17572
Carex bromoides Schkuhr ex Willd., 2004 J.A. Isaac 17540
Carex brunneascens (Pers.) Poir, 1991 J.K. Bissell and B. Danielson 1991:070
Carex bushii Mack., 1997 R.C. Leberman s.n.
Carex buxbaumii Wahlenb., 2004 J.A. Isaac and M. Fiely 17668 G5:S3
Carex canescens L. var. *canescens*, 2004 J.A. Isaac 17475
Carex canescens L. var. *disjuncta* (Fern.) Toivonen, 1952 W.E. Bakker s.n.
Carex caroliniana Schwein., 2000 J.K. Bissell and B. Danielson 2000:038
- Carex cephalophora* Muhl. ex Willd., 1980 R.C. Leberman s.n.
Carex communis Bailey, 1991 J.K. Bissell and B. Danielson 1991:070
Carex comosa Boott, 2005 L. Speedy and L. Armstrong LSB1594
Carex crinita Lam. var. *crinita*, 2005 L. Speedy 742
Carex cristatella Britt., 2004 J.A. Isaac 17694
Carex cryptolepis Mack., 1993 J.K. Bissell and B. Danielson 1993:092 G4:S1
Carex debilis Michx. var. *pubera* Gray, 1886 B.H. Patterson s.n.
Carex debilis Michx. var. *rudgei* Bailey, 2004 J.A. Isaac 17441
Carex diandra Schrank, 2004 J.A. Isaac 17534 G5:S2
Carex digitalis Willd. var. *digitalis*, 2004 J.A. Isaac 17465
Carex disperma Dewey, 2004 J.K. Bissell 2004:193 G5:S3
Carex echinata Murr. ssp. *echinata*, 1993 J.A. Isaac 4761
Carex flava L., 2004 J.A. Isaac 17674 G5:S2
Carex folliculata L., 2004 J.K. Bissell 2004:121
Carex gracilescens Steud., 1985 J.K. Bissell 85:55
Carex gracillima Schwein., 2005 L. Speedy LSB1121
Carex granularis Muhl. ex Willd., 1994 J.D. Wagner and J.K. Bissell 352
Carex grayi Carey, 2004 J.A. Isaac 17532
Carex gynandra Schwein., 2004 S.P. Grund and L. Miller 3664
Carex hirsutella Mack., 1952 L.K. Henry and W.E. Baker s.n.
Carex hystericina Muhl. ex Willd., 2004 S.P. Grund and L. Miller 3607
Carex interior Bailey, 2004 J.A. Isaac 17672
Carex intumescens Rudge, 2005 L. Speedy 1132
Carex lacustris Willd., 2004 S.P. Grund and L. Miller 3556
Carex laevigata (Kükenth.) Mack., 1988 J.K. Bissell and B. Danielson 1988:035
Carex lasiocarpa Ehrh. var. *americana* Fern., 1994 J.D. Wagner and J.K. Bissell 392 G5:S3
Carex laxiculmis Schwein. var. *laxiculmis*, 2004 J.A. Isaac 17436
Carex laxiflora Lam., 1908 O.E. Jennings s.n.
Carex leptalea Wahlenb. ssp. *leptalea*, 2004 J.A. Isaac 17538
Carex leptonervia (Fern.) Fern, 2004 J.A. Isaac 17434
Carex lupulina Muhl. ex Willd., 2005 L. Speedy 739
Carex lurida Wahlenb., 2005 L. Speedy 1103
Carex mitchelliana M.A. Curtis, 2004 J.A. Isaac 17600 G3G4: S1
Carex normalis Mack., 1922 J. Bright s.n.
Carex novae-angliae Schwein., 1992 J.K. Bissell and B. Danielson 92:063
Carex oligocarpa Schkuhr ex Willd., 1929 J. Bright 1766
Carex ormostachya Wieg., 1985 J.K. Bissell 85:052 G4:S2
Carex pallescens L., 1997 S.P. Grund and J.A. Isaac 1873
Carex pedunculata Muhl. ex Willd., 1989 J.K. Bissell et al. 1989:021
Carex pensylvanica Lam., 2004 J.A. Isaac 17455
Carex plantaginea Lam., 2004 J.A. Isaac 17495
Carex platyphylla Carey, 1980 R.C. Leberman s.n.
Carex prairea Dewey ex Wood, 2004 J.K. Bissell 2004:085 G5:S2
Carex prasina Wahlenb., 2001 J.A. Isaac 13638

Carex projecta Mack., 2004 S.P. Grund and L. Miller 3554
Carex pseudocyperus L., 2004 J.A. Isaac 17669 G5:S1
Carex radiata (Wahlenb.) Small, 2004 J.A. Isaac 17448
Carex rosea Schkuhr ex Willd., 2004 S.P. Grund and L. Miller 3553
Carex sartwellii Dewey, 1947 O.E. Jennings s.n. G4G5:SX
Carex scabrata Schwein., 2001 J.A. Isaac 13639
Carex scoparia Schkuhr ex Willd. var. *scoparia*, 2004 S.P. Grund and L. Miller 3608
Carex seorsa Howe, 2004 J.A. Isaac 17471
Carex sparganioides Muhl. ex Willd., 1929 O.E. Jennings s.n.
Carex squarrosa L., 1942 C.E. Wood 2209
Carex stipata Muhl. ex Willd. var. *maxima* Chapman, 1906 O.E. Jennings s.n.
Carex stipata Muhl. ex Willd. var. *stipata*, 2004 J.A. Isaac 17440
Carex straminea Willd. ex Schkuhr, 1991 J.K. Bissell et al. 1991:061
Carex stricta Lam., 2004 S.P. Grund and L. Miller 3555
Carex swanii (Fern.) Mack., 2005 L. Speedy 1087
Carex tenera Dewey, 1991 J.K. Bissell et al. 91:061
Carex torta Boott ex Tuck., 2004 J.A. Isaac 17426
Carex tribuloides Wahlenb., 1993 J.K. Bissell and B. Danielson 1993:090
Carex trichocarpa Muhl ex Willd., 1994 J.K. Bissell et al. 94:068
Carex trisperma Dewey, 2004 J.A. Isaac 17539
Carex tuckermanii Dewey, 2002 J.K. Bissell 2002:161
Carex typhina Michx., 1998 J.K. Bissell 1998:101 G5:S2
Carex utriculata Boott, 1993 J.K. Bissell et al. 93:093
Carex vesicaria L. var. *monile* (Tuck.) Fern., 1952 L.K. Henry and F.H. Beer s.n.
Carex virescens Muhl. ex Willd., 1930 H.E. Stone s.n.
Carex vulpinoidea Michx., 2004 L. Miller and S.P. Grund 44
Cladium mariscoides (Muhl.) Torr., 1994 J.D. Wagner and L.L. Smith 653 G5:S2
Cyperus bipartitus Torr., 2004 S.P. Grund and L. Miller 3614
Cyperus erythrorhizos Muhl., 2004 J.A. Isaac and J. Wagner 18542
Cyperus esculentus L., 1901 J.A. Shafer s.n. Exotic
Cyperus houghtonii Torr., 1941 W.C. Grimm s.n. G4?:S1
Cyperus odoratus L., 2001 J.K. Bissell 2001:150
Cyperus strigosus L., 2004 S.P. Grund and L. Miller 3598
Dulichium arundinaceum (L.) Britt., 2005 L. Speedy LSB1105
Eleocharis acicularis (L.) Roemer & J.A. Schultes, 2004 S.P. Grund and L. Miller 3499
Eleocharis compressa Sull., 1993 J.K. Bissell and B. Danielson 93:92 G4:S1
Eleocharis elliptica Kunth, 1994 J.D. Wagner and J.K. Bissell 399 G5:S2
Eleocharis erythropoda Steud., 1988 J.K. Bissell et al. 88:035
Eleocharis intermedia J.A. Schultes, 1992 J.K. Bissell and B. Danielson 92:130 G5:S2
Eleocharis obtusa (Willd.) J.A. Schultes var. *obtusa*, 2005 J.K. Bissell 2005:074
Eleocharis ovata (Roth) Roemer & J.A. Schultes, 2004 J.A. Isaac 17696

Eleocharis palustris (L.) Roemer & J.A. Schultes, 1995 R.C. Leberman s.n.
Eriophorum virginicum L., 2004 J.A. Isaac 18471
Eriophorum viridicarinatum (Engelm.) Fern., 1994 J.D. Wagner and J.K. Bissell 358 G5:S2
Rhynchospora alba (L.) Vahl, 1994 J.D. Wagner 662
Schoenoplectus acutus (Muhl. ex Bigelow) A. & D. Löve var. *acutus*, 1988 J.K. Bissell et al. 1988:129 G5:G2
Schoenoplectus pungens (Vahl) Palla, Verh.K.K., 1974 R. Fulton s.n. 1974 R. Fulton s.n.
Schoenoplectus fluviatilis (Torr.) M.T. Strong, 1997 J.A. Isaac 9880 G5:S3
Schoenoplectus tabernaemontani (K.C. Gmel.) Palla, 2004 L. Miller and S.P. Grund 27
Scirpus atrocinctus Fern., 1984 J.K. Bissell 84:119
Scirpus atrovirens Willd., 2004 S.P. Grund and L. Miller 3670
Scirpus cyperinus (L.) Kunth, 2005 L. Speedy LSB1107
Scirpus georgianus R.M. Harper, 2004 S.P. Grund and L. Miller 3519
Scirpus hattorianus Makino, 2004 J.A. Isaac 17695
Scirpus lineatus Michx., 1972 R.C. Leberman s.n.
Scirpus microcarpus J. & K. Presl, 1993 J.K. Bissell and S. Lor 1993:206
Scirpus pendulus Muhl., 2004 J.A. Isaac 17704
Scirpus polyphyllus Vahl, 2005 L. Speedy LSB1112

Dioscoreaceae
Dioscorea villosa L., 1904 O.E. Jennings s.n.

Droseraceae
Drosera rotundifolia L. var. *rotundifolia*, 1994 J.D. Wagner and L.L. Smith 652

Elaeagnaceae
Elaeagnus umbellata Thunb., 1991 R.S. Fox s.n. Asia
Shepherdia canadensis (L.) Nutt., 1992 J.K. Bissell and B. Danielson 92:064 G5:S1

Ericaceae
Arctostaphylos uva-ursi (L.) Spreng., 1930 W.R. Van Dersal 1327 G5:SX
Chamaedaphne calyculata (L.) Moench, 1991 R.C. Leberman s.n.
Epigaea repens L., 2004 J.A. Isaac 17325
Gaultheria procumbens L., 1990 J.K. Bissell and B. Danielson 1990:197
Gaylussacia baccata (Wangenh.) K. Koch, 2004 J.A. Isaac 17611
Lyonia ligustrina (L.) DC. var. *ligustrina*, 1884 F.T. Aschman s.n.
Rhododendron maximum L., 1962 L.K. Henry s.n.
Rhododendron periclymenoides (Michx.) Shinners, 1942 O.E. Jennings s.n.
Rhododendron prinophyllum (Small) Millais, 1927 O.E. Jennings et al. s.n.
Vaccinium corymbosum L., 2005 L. Speedy LSB302
Vaccinium fuscatum Ait., 1983 R.C. Leberman s.n. [*Cyanococcus atrococcus* (Gray) Small]
Vaccinium macrocarpon Ait., 1999 J.K. Bissell 1999:073
Vaccinium myrtilloides Michx., 2004 J.A. Isaac 18436

Vaccinium pallidum Ait., 2004 J.A. Isaac 17463
Vaccinium stamineum L., 2004 J.A. Isaac 17457

Eriocaulaceae

Eriocaulon aquaticum (Hill) Druce, 1933 W.R. Van Dersal s.n.

Euphorbiaceae

Acalypha rhomboidea Raf., 1970 W.E. Bakker s.n.
Chamaesyce maculata (L.) Small, 1964 W.E. Bakker s.n.
Chamaesyce nutans (Lag.) Small, 1964 W.E. Bakker s.n.
Euphorbia corollata L., 1901 J.A. Shafer s.n.
Euphorbia cyparissias L., 1933 O.E. Jennings s.n. Eurasia

Fabaceae

Amphicarpaea bracteata (L.) Fern. var. *bracteata*, 1984 J.K. Bissell 1984:120
Amphicarpaea bracteata (L.) Fern. var. *comosa* (L.) Fern, 1939 O.E. Jennings s.n.
Apis americana Medik., 2004 S.P. Grund and L. Miller 3604
Baptisia tinctoria (L.) R. Br. ex Ait. f., 1968 R.C. Leberman s.n.
Chamaecrista fasciculata (Michx.) Greene var. *fasciculata*, 1994 K. Marsh et al. s.n.
Desmodium canadense (L.) DC., 1968 W.E. Bakker s.n.
Desmodium glutinosum (Muhl. ex Willd.) Wood, 2004 J.A. Isaac 17682
Desmodium marilandicum (L.) DC., 1994 K. Marsh et al. s.n.
Desmodium nudiflorum (L.) DC., 1907 J.A. Shafer s.n.
Desmodium paniculatum (L.) DC. var. *paniculatum*, 1973 R.C. Leberman s.n.
Desmodium perplexum Schub., 1994 K. Marsh et al. s.n.
Desmodium rotundifolium DC., 1907 J.A. Shafer s.n.
Gleditsia triacanthos L., 1909 O.E. Jennings s.n.
Lathyrus japonicus Willd. var. *maritimus* (L.) Kartesz & Gandhi, 1914 J. Bright s.n. G5:S2
Lathyrus ochroleucus Hook., 1901 J.A. Shafer s.n. G4G5:S1
Lespedeza frutescens (L.) Hornem., 1994 K. Marsh et al. s.n.
Lespedeza hirta (L.) Hornem. var. *hirta*, 1994 K. Marsh et al. s.n.
Lotus corniculatus L., 1980 F.Q. Jenkins and C.E. Jenkins 2820 Europe
Lupinus perennis L. ssp. *perennis*, 1930 W.R. VanDersal 1271 G5:S3
Medicago lupulina L., 2004 J.A. Isaac 17707 Eurasia
Medicago sativa L. ssp. *sativa*, 2004 J.A. Isaac 17691 Eurasia
Melilotus officinalis (L.) Lam., 1922 O.E. Jennings s.n. Eurasia
Strophostyles helvola (L.) Elliott, 1933 O.E. Jennings s.n.
Trifolium aureum Pollich, 1952 L.K. Henry and W.E. Bakker s.n. Eurasia
Trifolium campestre Schreb., 1914 C.A. Darling s.n. Europe
Trifolium dubium Sibth., 2005 R. Thompson 05-650 Europe
Trifolium hybridum L., 1914 C.A. Darling s.n. Eurasia
Trifolium pratense L., 1938 O.E. Jennings s.n. Europe
Trifolium repens L., 1904 O.E. Jennings s.n. Europe
Vicia sativa L. ssp. *nigra* (L.) Ehrh., 1928 J.A. Murray s.n. Europe
Vicia tetrasperm (L.) Schreb., 2005 R. Thompson 05-600 Eurasia
Vicia villosa Roth. ssp. *villosa*, 1972 W.E. Bakker s.n. Europe

Fagaceae

Castanea dentata (Marsh.) Borkh., 2004 J.A. Isaac 18419

Fagus grandifolia Ehrh., 1997 R.C. Leberman s.n.

Quercus alba L., 1996 R.C. Leberman s.n.

Quercus bicolor Willd., 1909 O.E. Jennings s.n.

Quercus coccinea Muenchh. var. *coccinea*, 1963 P.B. Monk s.n.

Quercus imbricaria Michx., 1997 R.C. Leberman s.n.

Quercus macrocarpa Michx. var. *macrocarpa*, 1919 O.E. Jennings and J.C. Fettermann s.n.

Quercus palustris Muenchh., 1997 R.C. Leberman s.n.

Quercus prinus L., 1996 R.C. Leberman s.n.

Quercus rubra L. var. *rubra*, 2005 L. Speedy LSB1080-2

Quercus shumardii Buckl., 2006 J.K. Bissell 2006:007 G5:S1

Quercus velutina Lam., 2003 S. Ernst 28

Fumariaceae

Corydalis flavula (Raf.) DC., 1932 W.R. Van Dersal 1921

Gentianaceae

Bartonia virginica (L.) B.S.P., 1996 S. Grund 1741

Centaurea pulchellum (Sw.) Druce, 2004 J.A. Isaac 18406 Europe

Gentiana clausa Raf., 1988 J.K. Bissell and B. Danielson 1990:197

Geraniaceae

Geranium maculatum L., 2005 L. Speedy LSB755

Haloragaceae

Myriophyllum sibiricum Kom., 2003 J.K. Bissell 2003:091 G5: S1

Myriophyllum spicatum L., 2004 L. Miller and S.P. Grund 18 Eurasia

Myriophyllum verticillatum L., 2001 J.K. Bissell 2001:148 G5:S1

Proserpinaca palustris L. var. *crebra* Fern. & Grisc., 1993 J.A. Isaac 4762

Hamamelidaceae

Hamamelis virginiana L., 1997 R.C. Leberman s.n.

Hippocastanaceae

Aesculus glabra Willd. var. *glabra*, 1997 R.C. Leberman s.n.

Elodea canadensis Michx., 2004 S.P. Grund and L. Miller 3586

Elodea nuttallii (Planch.) St. John, 1923 O.E. Jennings s.n.

Vallisneria americana Michx., 2004 S.P. Grund and L. Miller 3587

Hydrophyllaceae

Hydrophyllum virginianum L., 1960 L.K. Henry s.n.

Iridaceae

Iris pseudacorus L., 2004 J.A. Isaac and J. Wagner 18543 Europe

Iris versicolor L., 2004 L. Miller and S.P. Grund 39

Sisyrinchium angustifolium P. Mill., 2004 J.A. Isaac 17483

Juglandaceae

Carya cordiformis (Wangenh.) K. Koch, 1997 R.C. Leberman s.n.

Carya glabra (P. Mill.) Sweet, 1996 R.C. Leberman s.n.

Carya laciniosa (Michx. f.) G. Don, 1997 J.K. Bissell et al. 1997:183 G5:S3

Carya ovalis (Wangenh.) Sarg., 1915 O.E. Jennings and G.K. Jennings s.n.
Carya ovata (P. Mill.) K. Koch, 1907 O.E. Jennings s.n.
Carya × laneyi Sarg. [cordiformis × ovata], 1938 O.E. Jennings s.n.
Juglans cinerea L., 1924 O.E. Jennings s.n.
Juglans nigra L., 1963 P. Monk s.n.

Juncaceae

Juncus acuminatus Michx., 1997 J.K. Bissell and B. Gordon 1997:155
Juncus articulatus L., 2004 L. Miller and S.P. Grund 47
Juncus bufonius L. var. *bufonius*, 2004 J.A. Isaac 17710
Juncus canadensis J. Gay ex Laharpe, 2004 J.A. Isaac 18470
Juncus dudleyi Wieg., 1997 J.A. Isaac 9859
Juncus effusus L. var. *pylaei* (Laharpe) Fern. & Wieg., 2004 S.P. Grund and L. Miller 3495
Juncus effusus L. var. *solutus* Fern. & Wieg., 2005 L. Speedy LSB31106
Juncus marginatus Rostk., 1973 R.C. Leberman s.n.
Juncus nodosus L., 1996 S. Grund et al. 1750
Juncus subcaudatus (Engelm.) Coville & Blake var. *subcaudatus*, 1932 W.R. Van Dersal 51
Juncus tenuis Willd., 2004 L. Miller and S.P. Grund 48
Luzula acuminata Raf. var. *acuminata*, 2005 L. Speedy LSB344
Luzula echinata (Small) F.J. Herm., 1981 R.C. Leberman s.n.
Luzula multiflora (Ehrh.) Lej. ssp. *multiflora*, 2005 L. Speedy LSB301

Lamiaceae

Agastache scrophulariifolia (Willd.) Kuntze, 1947 H.A. Wahl 4082A
Blephilia ciliata (L.) Benth., 1909 B.H. Patterson s.n.
Clinopodium vulgare L., 2005 L. Speedy LSB757
Collinsonia canadensis L., 1904 O.E. Jennings s.n.
Galeopsis tetrahit L. var. *tetrahit*, 2004 J.A. Isaac 18420 Eurasia
Glechoma hederacea L., 1932 R. Van Dersal 1922 Eurasia
Hedeoma pulegioides (L.) Pers., 1955 D.L. Pearn s.n.
Lamium amplexicaule L., 1887 B.H. Patterson s.n. Eurasia
Leonurus cardiaca L. ssp. *cardiaca*, 1973 R.C. Leberman s.n. Asia
Lycopus americanus Muhl. ex W. Bart., 2004 S.P. Grund and L. Miller 3589
Lycopus uniflorus Michx. var. *uniflorus*, 2005 L. Speedy and L. Armstrong LSB1099
Lycopus virginicus L., 1904 O.E. Jennings s.n.
Mentha arvensis L., 1984 J.K. Bissell 1984:105
Mentha spicata L., 1901 J.A. Shafer s.n. Europe
Mentha × piperita L. (pro sp.) [aquatica × spicata], 1984 J.K. Bissell 84:119 Eurasia
Mentha × villosa Huds. (pro sp.) [spicata × suaveolens], 2005 R. Thompson 05-869 Eurasia
Monarda clinopodia L., 1998 R. Leberman s.n.
Monarda didyma L., 1966 L.K. Henry and W.E. Baker s.n.
Monarda fistulosa L. var. *fistulosa*, 1994 K. Marsh et al. s.n.
Monarda fistulosa L. var. *mollis* (L.) Benth., 1975 R.C. Leberman s.n.

Monarda media Willd., 1996 J.K. Bissell et al. 1996:091
Nepeta cataria L., 1901 J.A. Shafer s.n. Europe
Prunella vulgaris L. ssp. *lanceolata* (W. Bart.) Hultén, 2004 S.P. Grund and L. Miller 3515
Pycnanthemum incanum (L.) Michx. var. *incanum*, 1901 J.A. Shafer s.n.
Scutellaria galericulata L., 2005 L. Speedy LSB1102
Scutellaria lateriflora L. var. *lateriflora*, 2004 J.A. Isaac 18415
Stachys tenuifolia Willd., 1973 R.C. Leberman s.n.
Teucrium canadense L. var. *canadense*, 1998 R. Leberman s.n.
Teucrium canadense L. var. *occidentale* (Gray) McClintock & Epling, 1932 W.R. Van Dersal 1806
Trichostema dichotomum L., 1901 J.A. Shafer s.n.

Lauraceae

Lindera benzoin (L.) Blume var. *benzoin*, 2005 L. Speedy LSB334
Sassafras albidum (Nutt.) Nees, 1997 R.C. Leberman s.n.

Leptolepidaceae

Lemna minor L., 2005 L. Speedy LSB731
Lemna trisulca L., 1997 J.K. Bissell and B.W. Danielson 1997:067
Lemna turionifera Landolt, 1951 O.E. Jennings s.n. G5:SU
Spirodela polyrhiza (L.) Schleid., 2004 L. Miller and S.P. Grund 34
Wolfia borealis (Engelm. ex Hegelm.) Landolt ex Landolt & Wildi, 1951 O.E. Jennings s.n.
Wolfia brasiliensis Wedd., 2004 J.A. Isaac and J. Wagner 18546
Wolfia columbiana Karst., 1986 J.K. Bissell et al. 1986:285
Wolfiella gladiata (Hegelm.) Hegelm., 1997 J.K. Bissell and B. Danielson 1997:067 G5:S2

Lentibulariaceae

Utricularia gibba L., 1988 J.K. Bissell and B. Danielson 1988:265
Utricularia intermedia Hayne, 2004 J.A. Isaac 17675 G5:S2
Utricularia macrorhiza Le Conte, 2004 S.P. Grund and L. Miller 3609
Utricularia minor L., 2004 J.K. Bissell and B. Danielson 2004:208

Liliaceae

Allium canadense L. var. *canadensis*, 1950 L.K. Henry and W.E. Baker s.n.
Allium tricoccum Ait., 2004 J.A. Isaac 17683
Asparagus officinalis L., 1957 W.E. Baker s.n. Europe
Chamaelirium luteum (L.) Gray, 1900 D. Bard s.n.
Clintonia borealis (Ait.) Raf., 2004 J.A. Isaac 17421
Clintonia umbellulata (Michx.) Morong, 1981 R.C. Leberman s.n.
Erythronium albidum Nutt., 2001 J.K. Bissell 2001:006 G5:S3
Erythronium americanum Ker-Gawl ssp. *americanum*, 2004 J.A. Isaac 17315
Hemerocallis fulva (L.) L., 1914 C.A. Darling s.n. Asia
Hyacinthoides nonscripta (L.) Chouard ex Rothm., 1998 G. Shaffer s.n. Exotic
Hypoxis hirsuta (L.) Coville, 1889 J. Whitesides s.n.
Leucojum aestivum L. ssp. *aestivum*, 1998 C. Stelter s.n. Exotic

Lilium canadense L. ssp. *editorum* (Fern.) Wherry, 1997 R.C. Leberman s.n.
Lilium philadelphicum L. var. *philadelphicum*, 1882 J. Whitesides s.n.
Lilium superbum L., 1998 R. Leberman s.n.
Maianthemum canadense Desf., 2005 L. Speedy LSB1086
Maianthemum racemosum (L.) Link spp. *racemosum*, 1997 R.C. Leberman s.n.
Maianthemum stellatum (L.) Link, 1919 O.E. Jennings s.n.
Maianthemum trifolium (L.) Sloboda, 1937 O.E. Jennings s.n.
Medeola virginiana L., 1981 R.C. Leberman s.n.
Polygonatum biflorum (Walt.) Ell. var. *commutatum* (J.A. & J.H.), 1997 R.C. Leberman s.n.
Polygonatum pubescens (Willd.) Pursh, 2004 J.A. Isaac 17435
Prosartes lanuginosa (Michx.) D. Don, 1981 R.C. Leberman s.n.
[*Disporum lanuginosa* (Michx.) Nichols.]
Stenanthium gramineum (Ker-Gawl.) Morong var. *gramineum* ca, 1890 J.E. Whiteside s.n. G4G5:S1S2
Streptopus lanceolatus (Ait.) Reveal var. *roseus* (Michx.) Reveal, 1985 J.K. Bissell and M. Hoberecht 1985:048
Trillium erectum L., 2004 J.A. Isaac 17335
Trillium flexipes Raf., 1941 O.E. Jennings s.n. G5:S2
Trillium grandiflorum (Michx.) Salisb., 2004 J.A. Isaac 17339
Trillium undulatum Willd., 1971 R.C. Leberman s.n.
Uvularia grandiflora Sm., 1974 G. Williamson 94
Uvularia perfoliata L., 1919 O.E. Jennings s.n.
Uvularia sessilifolia L., 1981 R.C. Leberman s.n.
Veratrum viride Ait., 2005 L. Speedy LSB752

Limnanthaceae

Floerkea proserpinacoides Willd., 2005 L. Speedy LSB347

Linaceae

Linum striatum Walt., 1992 J.K. Bissell et al. 92:170
Linum usitatissimum L., 1901 J.A. Shafer s.n. Europe

Lythraceae

Decodon verticillatus (L.) Elliott, 2005 L. Speedy LSB1109
Lythrum salicaria L., 2005 L. Speedy LSB727 Europe

Magnoliaceae

Liriodendron tulipifera L., 1917 C.A. Darling s.n.
Magnolia acuminata (L.) L., 1997 R.C. Leberman s.n.

Malvaceae

Abutilon theophrasti Medik., 1994 K. Marsh and G. Marsh s.n. Asia
Malva moschata L., 2004 J.A. Isaac et al. 17723 Europe
Malva neglecta Wallr., 1948 D.H. Krouse s.n. Eurasia & N. Africa

Menispermaceae

Menispermum canadense L., 1914 C.A. Darling s.n.

Menyanthaceae

Menyanthes trifoliata L., 1994 J.D. Wagner and J.K. Bissell 393

Moraceae

Morus alba L., 1997 R.C. Leberman s.n. Asia

Myricaceae

Morella pensylvanica (Mirb.) Kartesz, 1994 J.D. Wagner and J.K. Bissell 404

Najadaceae

Najas flexilis (Willd.) Rostk. & Schmidt, 2004 S.P. Grund and L. Miller 3576
Najas gracillima (A. Braun ex Engelm.) Magnus, 2004 S.P. Grund and L. Miller 3581
Najas guadalupensis (Spreng.) Magnus ssp. *guadalupensis*, 2004 S.P. Grund and L. Miller 3584
Najas minor All., 2004 S.P. Grund and L. Miller 3637 Exotic

Nelumbonaceae

Nelumbo lutea Willd., 1992 J.K. Bissell 1992:109

Nymphaeaceae

Nuphar lutea (L.) Sm ssp. *advena* (Ait.) Kartesz & Gandhi, 2003 S. Ernst 116
Nuphar lutea (L.) Sm ssp. *variegata* (Dur.) E.O. Beal, 2004 J.K. Bissell 2004:111
Nymphaea odorata Ait. ssp. *odorata*, 2004 L. Miller and S.P. Grund 26
Nymphaea odorata Ait. ssp. *tuberous* (Paine) Wiersma & Hellquist, 1923 O.E. Jennings s.n.

Nyssaceae

Nyssa sylvatica Marsh., 2004 J.A. Isaac 17545

Oleaceae

Fraxinus americana L., 2004 S.P. Grund and L. Miller 3540
Fraxinus nigra Marsh., 2004 S.P. Grund and L. Miller 3535
Fraxinus pennsylvanica Marsh., 2001 J.A. Isaac 13668
Fraxinus profunda (Bush) Bush, 2003 R. Coxe and M. Bradburn s.n. G4:S1
Ligustrum obtusifolium Sieb. & Zucc., 1998 K. Marsh s.n. Japan

Onagraceae

Chamerion angustifolium (L.) Holub ssp. *circumvagum* (Mosquin) Kartesz, 1967 W.E. Baker s.n.
Circaeа alpina L. ssp. *alpina*, 1972 R.C. Leberman s.n.
Circaeа lutetiana L. ssp. *canadensis* (L.) Asch. & Magnus, 2004 S.P. Grund 3552
Epilobium ciliatum Raf. ssp. *ciliatum*, 1928 J.A. Murray s.n.
Epilobium coloratum Biehler, 2005 L. Speedy and L. Armstrong LSB1593
Epilobium hirsutum L., 1994 K. Marsh and G. Marsh s.n. Europe
Epilobium leptophyllum Raf., 1994 J.D. Wagner 678
Epilobium strictum Muhl. ex Spreng., 2004 J.A. Isaac 18426 G5?:S3
Ludwigia palustris (L.) Elliott., 2005 J.K. Bissell 2005:074
Oenothera biennis L., 1964 W.E. Baker s.n.
Oenothera fruticosa L. ssp. *glaucia* (Michx.) Straley, J.A. Murray s.n.
Oenothera nutans Atk. & Bartlett, Curtis 39
Oenothera perennis L., 1981 R.C. Leberman s.n.

Orchidaceae

Arethusa bulbosa L., 1905 O.E. Jennings s.n. G4:S1
Calopogon tuberosus (L.) B.S.P. var. *tuberous*, 1994 J.D. Wagner and J.K. Bissell 390
Corallorrhiza maculata (Raf.) Raf. var. *maculata*, 1998 R. Leberman s.n.

Corallorrhiza maculata (Raf.) Raf. var. *occidentalis* (Lindl.) Ames, 1881 C.W. C. s.n.
Corallorrhiza trifida Chatel., 2004 J.A. Isaac 17417
Cypripedium acaule Ait., 1962 L.K. Henry s.n.
Cypripedium parviflorum Salisb. var. *pubescens* (Willd.) Knight, 1969 W.E. Baker and W.C. Baker s.n. G5:S1
Cypripedium reginae Walt., 1962 L.K. Henry s.n. G4:S2
Epipactis helleborine (L.) Crantz, 1998 R. Leberman s.n. Europe
Galearis spectabilis (L.) Raf., 1949 L.K. Henry s.n.
Goodyera pubescens (Willd.) R. Br. ex Ait. f., 2004 J.A. Isaac 17443
Isotria verticillata Raf., 1997 R.C. Leberman s.n.
Liparis loeselii (L.) L.C. Rich., 1969 W.E. Baker s.n.
Malaxis brachypoda (Gray) Fern., 1968 W.E. Baker s.n. G4Q:S1
Platanthera clavellata (Michx.) Luer., 2005 L. Speedy LSB1085
Platanthera dilatata (Pursh) Lindl. ex Beck var. *dilatata*, 1994 J.S. Shriver and C. Smith 216 G5:S1
Platanthera flava (L.) Lindl. var. *herbiola* (R. Br. ex Ait. f.) Luer., 1975 R.C. Leberman s.n.
Platanthera grandiflora (Bigelow) Lindl., 1922 J. Bright s.n.
Platanthera huronensis (Nutt.) Lindl., 1965 J. Stull and D. Stull s.n.
Platanthera hyperborea (L.) Lindl. var. *hyperborean*, 1997 J.A. Isaac 9881 G5:S1
Platanthera lacera (Michx.) G. Don, 1980 R.C. Leberman s.n.
Platanthera leucophaea (Nutt.) Lindl., 1881 C.W. C. s.n. G3: SX
Platanthera macrophylla (Goldie) P.M. Brown, 1962 R.C. Leberman s.n.
Platanthera orbiculata (Pursh) Lindl., 1982 R.C. Leberman s.n.
Platanthera psycodes (L.) Lindl., 1962 L.K. Henry s.n.
Pogonia ophioglossoides (L.) Ker-Gawl., 1994 J.D. Wagner and J.K. Bissell 391
Spiranthes cernua (L.) L.C. Rich., 2002 J.K. Bissell 2002:176
Spiranthes lucida (H.H. Eat) Ames, 1982 W.E. Baker s.n. G5:S3
Spiranthes ochroleuca (Rydb.) Rydb., 1970 R.C. Leberman s.n.
Spiranthes romanzoffiana Cham., 1995 J.S. Shriver and C. Smith 423 G5:S1

Orobanchaceae

Conopholis americana (L.) Wallr. F., 2004 J.A. Isaac 17456
Epifagus virginiana (L.) W. Bart., 2005 L. Speedy, M. Bowers and M. Fodse LSB1605

Oxalidaceae

Oxalis dillenii Jacq., 1904 O.E. Jennings s.n.
Oxalis montana Raf., 1985 J.K. Bissell and M. Hoberecht 1985:048
Oxalis stricta L., 1905 O.E. Jennings s.n.

Papaveraceae

Chelidonium majus L. var. *majus*, 2004 J.A. Isaac 17355 Europe

Phrymaceae

Phryma leptostachya L., 1901 J.A. Shafer s.n.

Phytolaccaceae

Phytolacca americana L. var. *americana*, 1969 W.E. Baker s.n.

Plantaginaceae

Plantago aristata Michx., 1904 O.E. Jennings s.n.
Plantago lanceolata L., 2004 J.A. Isaac 17711 Europe
Plantago major L., 1901 J.A. Shafer s.n.
Plantago rugelii Dcne., 1901 J.A. Shafer s.n.

Platanaceae

Platanus occidentalis L., 1928 J.A. Murray s.n.

Poaceae

Agrostis gigantea Roth, 2004 J.A. Isaac 17703 Europe
Agrostis perennans (Walt.) Tuck., 1907 O.E. Jennings s.n.
Agrostis scabra Willd., 2003 J.K. Bissell 1999:073
Agrostis stolonifera L., 2004 J.A. Isaac et al. 17666
Alopecurus aequalis Sobol. var. *aequalis*, 2001 J.A. Isaac and C.F. Chuey 13659 G5:S3
Andropogon gerardii Vitman, 2002 J.A. Isaac 15714
Andropogon virginicus L. var. *virginicus*, 2002 J.A. Isaac 15717
Anthoxanthum odoratum L. spp. *odoratum*, 2004 J.A. Isaac 17350 Eurasia
Arrhenatherum elatius (L.) P. Beauv. ex J. & C. Presl var. *elatius*, 1952 W.E. Baker s.n. Europe
Bouteloua curtipendula (Michx.) Torr. var. *curtipendula*, 2002 J.A. Isaac 15715 G5:S2
Bouteloua gracilis (Willd. ex Kunth) Lag. ex Griffiths, 2002 J.A. Isaac 15723
Brachyelytrum erectum (Schreb. ex Spreng.) Beauv., 1984 J.K. Bissell 1984:103
Bromus ciliatus L. var. *ciliatus*, 1992 J.K. Bissell et al. 1992:102
Bromus inermis Leyss. ssp. *inermis*, 2004 J.A. Isaac 17715 Europe
Bromus japonicus Thunb. ex Murr., 2004 J.A. Isaac and R. Coxe 17577 Eurasia
Bromus latiglumis (Shear) A.S. Hitchc., 1994 K. Marsh et al. s.n.

Bromus racemosus L., 2004 J.A. Isaac 17692 Europe
Bromus secalinus L., 1968 W.E. Baker s.n. Europe
Bromus tectorum L., 1922 O.E. Jennings s.n. Europe
Cinna arundinacea L., 2005 L. Speedy LSB1110
Cinna latifolia (Trev. ex Goepp.) Griseb., 1998 J.K. Bissell 1998:104

Dactylis glomerata L. ssp. *glomerata*, 1980 R.C. Leberman s.n. Europe
Danthonia compressa Austin ex Peck, 1984 J.K. Bissell 1984:103

Danthonia spicata (L.) Beauv. ex Roem. & J.A. Schultes, 1882 J. Whitesides s.n.
Dichanthelium acuminatum (Sw.) Gould & C.A. Clark var. *fuscum* (Torr.) Freckmann, 2005 J.K. Bissell 2005:074
Dichanthelium acuminatum (Sw.) Gould & C.A. Clark var. *lindheimeri* (Nash) Gould & C.A. Clark, 1933 O.E. Jennings s.n.

Dichanthelium clandestinum (L.) Gould, 1981 R.C. Leberman s.n.

Dichanthelium dichotomum (L.) Gould var. *dichotomum*, 1901 J.A. Shafer s.n.
Dichanthelium latifolium (L.) Gould & C.A. Clark, 1993 J.K. Bissell et al. 1993:065

- Dichanthelium linearifolium* (Scribn.ex Nash) Gould, 1922 J. Bright s.n.
- Dichanthelium sabulorum* (Lam.) Gould & C.A. Clark var. *thinum* (A.S. Hitchc. & Chase) Gould & C.A. Clark, 2002 J.A. Isaac 15712
- Dichanthelium sphaerocarpon* (Elliott) Gould var. *sphaerocarpon*, 1922 J. Bright s.n.
- Digitaria ischaemum* (Schreb.) Schreb. ex Muhl., 2002 J.A. Isaac 15718 Eurasia
- Digitaria sanguinalis* (L.) Scop., 1881 J. Whitesides s.n.
- Echinochloa crus-galli* (L.) Beauv., 1984 D.W. Vogler and C.W. Bier 6-4 Eurasia
- Echinochloa muricata* (Beauv.) Fern. var. *muricata*, 2005 J.K. Bissell 2005:074 Exotic
- Eleusine indica* (L.) Gaertn., 1882 J. Whitesides s.n. Old World Tropics
- Elymus hystrix* L. var. *hystrix*, 2005 L. Speedy LSB754
- Elymus repens* (L.) Gould, 2004 J.A. Isaac 17693 Exotic
- Elymus riparius* Wieg., 1994 K. Marsh et al. s.n.
- Elymus villosus* Muhl. ex Willd., 1882 J. Whitesides s.n.
- Elymus virginicus* L. var. *virginicus*, 1997 J.A. Isaac 9876
- Eragrostis ciliaris* (All.) Vign. ex Janchen, 1964 W.E. Baker s.n. Europe
- Eragrostis hypnoides* (Lam.) B.S.P., 2005 J.K. Bissell and B. Danielson 2005:074
- Eragrostis pectinacea* (Michx.) Nees ex Steud. var. *pectinacea*, 1952 H.A. Wahl 13813
- Eragrostis spectabilis* (Pursh) Steud., 1994 K. Marsh et al. s.n.
- Festuca subverticillata* (Pers.) Alexeev, 1922 J. Bright s.n.
- Glyceria acutiflora* Torr., 1992 J.K. Bissell et al. 92:108
- Glyceria canadensis* (Michx.) Trin., 2005 L. Speedy and L. Armstrong LSB1599
- Glyceria grandis* S. Watson var. *grandis*, 1932 W.R. Van Dersal s.n.
- Glyceria laxa* (Scribn.) Scribn., 1909 B.H. Patterson s.n.
- Glyceria melicaria* (Michx.) F.T. Hubb., 2005 L. Speedy LSB1116
- Glyceria septentrionalis* A.S. Hitchc., 2004 S.P. Grund and L. Miller 3520
- Glyceria striata* (Lam.) A.S. Hitchc., 2005 L. Speedy LSB1098
- Holcus lanatus* L., 2004 J.A. Isaac 17714 Europe
- Hordeum vulgare* L., 1916 C.A. Darling s.n. Eurasia
- Leersia oryzoides* (L.) Sw., 2004 S.P. Grund and L. Miller 3669
- Leersia virginica* Willd., 2004 J.A. Isaac 18408
- Lolium perenne* L. spp. *multiflorum* (Lam.) Husnot, 2004 J.A. Isaac 17605 Europe
- Lolium perenne* L. ssp. *perenne*, 1949 Edgar T. Wherry s.n. Europe
- Lolium pratense* (Huds.) S.J. Darbysh., 1994 J.D. Wagner and J.K. Bissell 363 Europe
- Milium effusum* L. var. *cisatlanticum* Fern., 2004 J.A. Isaac 17544
- Muhlenbergia frondosa* (Poir.) Fern, 2002 J.A. Isaac 15726
- Muhlenbergia glomerata* (Willd.) Trin., 1994 J.D. Wagner 661
- Muhlenbergia mexicana* (L.) Trin., 1994 J.D. Wagner 695
- Muhlenbergia schreberi* J.F. Gmel., 1946 W.E. Baker s.n.
- Muhlenbergia sobolifera* (Muhl. ex Willd.) Trin., 1887 J. Whitesides s.n.
- Muhlenbergia sylvatica* Torr. ex Gray, 1997 J.A. Isaac 9856
- Oryzopsis asperifolia* Michx., 1980 A.W. Cusick and B. Andreas 19922
- Panicum capillare* L., 1964 W.E. Baker s.n.
- Panicum dichotomiflorum* Michx. var. *dichotomiflorum*, 2002 J.A. Isaac 15725
- Panicum gattingeri* Nash, 1998 J.K. Bissell 1998:159
- Panicum rigidulum* Bosc ex Nees var. *elongatum* (Pursh) Lelong, 1988 J.K. Bissell and B. Danielson 1988:273
- Panicum virgatum* L. var. *virgatum*, 2002 J.A. Isaac 15722
- Pennisetum glaucum* (L.) R. Br., 2002 J.A. Isaac 15711 Exotic
- Phalaris arundinacea* L., 2005 L. Speedy LSB737 v
- Phleum pratense* L., 2004 J.A. Isaac 17604 Europe
- Phragmites australis* (Cav.) Trin. ex Steud. ssp. *americana*, 2005 L. Speedy et al. 1579 s.n.
- Poa alsodes* Gray, 2004 J.A. Isaac 17449
- Poa annua* L., 2004 J.A. Isaac 17452 Eurasia
- Poa compressa* L., 2004 J.A. Isaac 17708 Europe
- Poa paludigena* Fern. & Wieg., 2002 J.K. Bissell 2002:061 G3: S3
- Poa palustris* L., 1952 L.K. Henry and W.E. Baker s.n.
- Poa pratensis* L., 1952 L.K. Henry and W.E. Baker s.n. Europe
- Poa saltuensis* Fern. & Wieg., 1994 J.K. Bissell et al. 94:106
- Poa trivialis* L., 1991 J.K. Bissell et al. 1991:059 Europe
- Schizachne purpurascens* (Torr.) Swallen, 1925 S.S. Dickey s.n.
- Setaria faberi* Herrm., 1997 J.A. Isaac 9851 Asia
- Setaria parviflora* (Poir.) Kerguélen, 1994 K. Marsh et al. s.n.
- Setaria pumila* (Poir.) Roemer & J.A. Schultes, 1949 Edgar T. Wherry s.n. Europe
- Sorghastrum nutans* (L.) Nash, 2002 J.A. Isaac 15716
- Spartina pectinata* Bosc ex Link, 1933 O.E. Jennings s.n.
- Sphenopholis intermedia* (Rydb.) Rydb., 1993 J.K. Bissell et al. 93:102
- Sphenopholis pensylvanica* (L.) A.S. Hitchc., 1994 J.D. Wagner and J.K. Bissell 354
- Sporobolus compositus* (Poir.) Merr. var. *compositus*, 1996 S. Grund 1747
- Sporobolus cryptandrus* (Torr.) Gray, 2002 J.A. Isaac 15724
- Sporobolus vaginiflorus* (Torr. ex Gray) Wood var. *vaginiflorus*, 1949 O.E. Jennings and C.M. Boardman s.n.
- Torreyochloa pallida* (Torr.) Church var. *pallida*, 2001 J.A. Isaac 13661
- Tridens flavus* (L.) A.S. Hitchc. var. *flavus*, 1994 K. Marsh et al. s.n.
- Triticum aestivum* L., 1916 C.A. Darling s.n. Eurasia
- Podostemaceae**
- Podostemum ceratophyllum* Michx., 1997 J.K. Bissell
- Polemoniaceae**
- Collomia linearis* Nutt., 1914 J. Bright s.n.
- Phlox divaricata* L. ssp. *divaricata*, 1971 W.E. Baker s.n.
- Phlox maculata* L. ssp. *maculata*, 1935 A.G. Dickey s.n.
- Phlox paniculata* L., 2004 S.P. Grund and L. Miller 3618
- Phlox stolonifera* Sims, 2004 J.A. Isaac 17356
- Polemonium reptans* L. var. *reptans*, 2005 L. Speedy LSB759
- Polygalaceae**
- Polygala polygama* Walt., 2006 J.K. Bissell 2006:190 G5:S1
- Polygala sanguinea* L., 1970 R.C. Leberman s.n.
- Polygala verticillata* L. var. *verticillata*, 1901 J.A. Shafer s.n.

Polygonaceae

- Fagopyrum esculentum* Moench, 1993 J.A. Isaac 4896 Asia
Polygonum amphibium L. var. *emersum* Michx., 2004 J.A. Isaac 18427
Polygonum amphibium L. var. *stipulaceum* Coleman, 1999 J.K. Bissell 1999:073
Polygonum arifolium L., 2005 L. Speedy LSB1113
Polygonum aviculare L., 2004 J.A. Isaac 17717 Europe
Polygonum caespitosum Blume, 1997 J. Long s.n. Asia
Polygonum ciliinode Michx., 1993 J.K. Bissell and B. Danielson 1993:105
Polygonum convolvulus L. var. *convolvulus*, 1914 C.A. Darling s.n. Europe
Polygonum cuspidatum Sieb. & Zucc., 1997 J. Long s.n. Japan
Polygonum hydropiper L., 2004 J.A. Isaac 18422 Europe
Polygonum hydropiperoides Michx., 2004 J.A. Isaac and J. Wagner 18540
Polygonum lapathifolium L., 1988 J.K. Bissell and B. Danielson 1988:299
Polygonum pensylvanicum L., 2005 J.K. Bissell 2005:074
Polygonum persicaria L., 2004 J.A. Isaac 17712 Europe
Polygonum punctatum Elliott var. *confertiflorum* (Meisn.) Fassett, 1904 O.E. Jennings s.n.
Polygonum punctatum Elliott var. *punctatum*, 1996 S. Grund 1748
Polygonum robustius (Small) Fern., 2003 J.K. Bissell and J. Bish 2003:125
Polygonum sagittatum L., 2005 L. Speedy LSB1101
Polygonum scandens L., 1994 K. Marsh and G. Marsh s.n. Exotic
Polygonum setaceum Baldwin, 2005 L. Speedy et al. 1580 G5T4:S2
Polygonum virginianum L., 2005 L. Speedy LSB1136
Rumex acetosella L., 2004 J.A. Isaac 17444 Europe
Rumex altissimus Wood, 1930 H.E. Stone s.n.
Rumex crispus L. ssp. *crispus*, 1952 L.K. Henry and F.H. Beer s.n. Europe
Rumex obtusifolius L., 2004 S.P. Grund and L. Miller 3518 Europe
Rumex orbiculatus Gray var. *orbiculatus*, 1988 J.K. Bissell et al. 1988:135
Rumex verticillatus L., 1995 R.C. Leberman s.n.

Pontederiaceae

- Heteranthera dubia* (Jacq.) MacM., 2003 J.K. Bissell 2003:074
Pontederia cordata L., 2004 S.P. Grund and L. Miller 3592

Portulacaceae

- Claytonia caroliniana* Michx. var. *caroliniana*, 2005 L. Speedy LSB332 2005
Claytonia virginica L. var. *virginica*, 2004 J.A. Isaac 17312
Portulaca oleracea L., 1949 Edgar T. Wherry s.n.

Potamogetonaceae

- Potamogeton amplifolius* Tuck., 2004 S.P. Grund and L. Miller 3509
Potamogeton crispus L., 2004 J.A. Isaac and J. Wagner 18538 Europe
Potamogeton diversifolius Raf., 1994 J.K. Bissell et al. 1994:173

- Potamogeton epihydrus* Raf., 2004 J.A. Isaac and J. Wagner 18545
Potamogeton foliosus Raf., 2004 S.P. Grund and L. Miller 3583
Potamogeton friesii Rupr., 2003 S. Ernst et al. 122 G4:S1
Potamogeton gramineus L., 1933 O.E. Jennings s.n. G5:SH
Potamogeton hillii Morong, 1865 Thomas C. Porter s.n. G3: S1
Potamogeton illinoensis Morong, 2003 S. Ernst and L. Speedy 82
Potamogeton natans L., 2004 J.A. Isaac and J. Wagner 18539
Potamogeton nodosus Poir., 2002 J.K. Bissell and B. Danielson 2002:154
Potamogeton perfoliatus L., 2003 S. Ernst et al. 79
Potamogeton praelongus Wulfen, 2003 S. Ernst et al. 78 G5: SH
Potamogeton pulcher Tuck., 1909 O.E. Jennings s.n. G5:S1
Potamogeton pusillus L. ssp. *pusillus*, 1907 J.A. Shafer s.n.
Potamogeton pusillus L. ssp. *tenuissimus* (Mert. & Koch) Haynes & C.B. Hellq., 2004 S.P. Grund and L. Miller 3577
Potamogeton richardsonii (Benn.) Rydb., 2003 S. Ernst et al. 65 G5:S3
Potamogeton robbinsii Oakes, 2004 S.P. Grund and L. Miller 3591
Potamogeton spirillus Tuck., 2004 S.P. Grund and L. Miller 3580
Potamogeton vaseyi J.W. Robbins, 2004 L. Miller and S.P. Grund 19 G4:S1
Potamogeton zosteriformis Fern., 2003 S. Ernst et al. 142 G5: S2S3
Stuckenia pectinata (L.) Boerner, 2002 J.K. Bissell and B. Danielson 2002:154

Primulaceae

- Lysimachia ciliata* L., 2005 L. Speedy LSB733
Lysimachia nummularia L., 2005 L. Speedy LSB724
Lysimachia quadrifolia L., 1972 R.C. Leberman s.n.
Lysimachia terrestris (L.) B.S.P., 2005 L. Speedy, M. Bowers and M. Fodse LSB1625
Lysimachia thyrsiflora L., 1992 J.K. Bissell et al. 1992:064
Lysimachia vulgaris L., 2004 J.A. Isaac et al. 17667 Eurasia
Samolus valerandi L. ssp. *parviflorus* (Raf.) Hultén, 2003 R. Coxe and M. Bradburn s.n.
Trientalis borealis Raf. spp. *borealis*, 1985 J.K. Bissell 1985:048

Pyrolaceae

- Chimaphila maculata* (L.) Pursh, 1998 R. Leberman s.n.
Chimaphila umbellata (L.) W. Bart. ssp. *cisatlantica* (Blake) Hultén, 1901 J.A. Shafer s.n.
Monotropa hypopithys L., 2004 J.A. Isaac 18416
Monotropa uniflora L., 2005 L. Speedy LSB1094
Pyrola americana Sweet, 1995 R.C. Leberman s.n.
Pyrola chlorantha Sw., 1890 J.S. Ogden s.n. G5:S1
Pyrola elliptica Nutt., 2004 J.A. Isaac 17614

Ranunculaceae

- Actaea pachypoda* Elliott, 1982 R.C. Leberman s.n.
Actaea racemosa L. var. *racemosa*, 1909 O.E. Jennings s.n.
Actaea rubra (Ait.) Willd., 1970 R.C. Leberman s.n.

- Anemone canadensis* L., 1990 J.K. Bissell and B. Danielson
1990:192
- Anemone quinquefolia* L. var. *quinquefolia*, 2005 L. Speedy
LSB342.
- Anemone virginiana* L. var. *virginiana*, 1997 R.C. Leberman
s.n.
- Aquilegia canadensis* L., 1972 W.E. Baker s.n.
- Caltha palustris* L. var. *palustris*, 2005 L. Speedy LSB338
- Clematis virginiana* L., 2005 L. Speedy LSB1125
- Coptis trifolia* (L.) Salisb., 2004 J.A. Isaac 17331
- Hepatica nobilis* Schreb. var. *acuta* (Pursh) Steyermark, 2004
J.A. Isaac 17318
- Hydrastis canadensis* L., 1883 J. Whitesides s.n.
- Ranunculus abortivus* L., 2005 L. Speedy LSB333
- Ranunculus acris* L., 2005 L. Speedy LSB762 Europe
- Ranunculus ambigens* S. Watson, 1918 E.M. Gress Field No.
422 G4:S3
- Ranunculus aquatilis* L., 2001 J.K. Bissell 2001:146 G5T5:S3
- Ranunculus flabellaris* Raf., 1909 O.E. Jennings s.n. G5:S2
- Ranunculus hispidus* Michx. var. *hispidus*, 1971 W.E. Baker s.n.
- Ranunculus hispidus* Michx. var. *nitidus* (Chapman) T. Duncan,
1950 L.K. Henry and W.E. Baker s.n.
- Ranunculus longirostris* Godr., 1988 J.K. Bissell et al. 1988:134
- Ranunculus pensylvanicus* L. f., 1984 J.K. Bissell 1984:105
- Ranunculus recurvatus* Poir. var. *recurvatus*, 1960 L.K. Henry
s.n.
- Ranunculus repens* L., 2004 J.A. Isaac 17348 Europe
- Thalictrum dioicum* L., 1972 W.E. Baker s.n.
- Thalictrum pubescens* Pursh, 2004 S.P. Grund and L. Miller
3483
- Thalictrum revolutum* DC., 1885 none s.n.
- Thalictrum thalictroides* (L.) Eames & Boivin, 1919 O.E. Jennings
s.n.
- Rhamnaceae**
- Ceanothus americanus* L., 1986 R.C. Leberman s.n.
- Frangula alnus* P. Mill., 2003 S. Ernst et al. 145 Exotic
- Rhamnus alnifolia* L'Hér., 2004 J.A. Isaac 18439
- Rhamnus cathartica* L., 1998 K. Marsh s.n. Europe
- Rosaceae**
- Agrimonia gryposepala* Wallr., 2005 L. Speedy LSB1122
- Agrimonia parviflora* Ait., 2005 R. Thompson 05-714
- Agrimonia pubescens* Wallr., 1962 R.C. Leberman s.n.
- Agrimonia striata* Michx., 1904 O.E. Jennings s.n.
- Amelanchier arborea* (Michx. f.) Fern. var. *arborea*, 2005 L.
Speedy LSB310
- Amelanchier laevis* Wieg., 2004 J.A. Isaac 17594
- Amelanchier stolonifera* Wieg., 2004 J.A. Isaac 17485
- Amelanchier × intermedia* Spach (pro sp.) [*arborea* × *canaden-*
sis], 1972 R.C. Leberman s.n.
- Comarum palustre* L., 1997 J.K. Bissell and G. Buckley
1997:104
- Crataegus chrysocarpa* Ashe var. *chrysocarpa*, 1963 P.B.
Monk s.n.
- Crataegus crus-galli* L., 1929 J. Bright 1779
- Crataegus dissona* Sarg., 1905 O.E. Jennings s.n.
- Crataegus macrosperma* Ashe, 2001 J.A. Isaac 13645
- Crataegus mollis* Scheele, 1922 J. Bright s.n. G5:SU
- Crataegus monogyna* Jacq., 1933 O.E. Jennings s.n. Eurasia
- Crataegus prona* Ashe, 1907 O.E. Jennings tree 82
- Crataegus pruinosa* (Wendl. f.) K. Koch, 1907 O.E. Jennings
tree 84
- Crataegus punctata* Jacq., 1997 R.C. Leberman s.n.
- Dalibarda repens* L., 1994 J.D. Wagner and L.L. Smith 642
- Filipendula rubra* (Hill) B.L. Rob., 1970 R.C. Leberman s.n.
G4G5:S1S2
- Filipendula ulmaria* (L.) Maxim., 1968 R.C. Leberman s.n.
Eurasia
- Fragaria vesca* L. ssp. *americana* (Porter) Staudt, 1904 O.E.
Jennings s.n.
- Fragaria vesca* L. ssp. *vesca*, 1950 L.K. Henry and W.E. Baker
s.n.
- Fragaria virginiana* Duchesne ssp. *grayana* (S. Watson) Staudt,
1904 O.E. Jennings s.n.
- Fragaria virginiana* Duchesne ssp. *virginiana*, 1930 W.R. Van
Dersal 1273
- Geum aleppicum* Jacq., 1952 L.K. Henry and W.E. Baker s.n.
- Geum canadense* Jacq. var. *canadense*, 2005 L. Speedy
LSB747
- Geum laciniatum* Murr. var. *laciniatum*, 1951 L.K. Henry and
W.E. Baker s.n.
- Geum rivale* L., 2004 J.A. Isaac 17689
- Malus coronaria* (L.) P. Mill., 2005 L. Speedy LSB1117
- Malus floribunda* Sieb. ex Van Houtte, 1995 R.C. Leberman
s.n. Asia
- Malus pumila* P. Mill., 2005 R. Thompson 05-573 Eurasia [*Pyrus*
malus L.]
- Photinia floribunda* (Lindl.) Robertson & Phipps, 1994 J.D.
Wagner et al. 119
- Photinia melanocarpa* (Michx.) Robertson & Phipps, 1991
R.C. Leberman s.n.
- Photinia pyrifolia* (Lam.) Robertson & Phipps, 1993 J.A. Isaac
4635
- Physocarpus opulifolius* (L.) Maxim. var. *opulifolius*, 1997 R.C.
Leberman s.n.
- Potentilla norvegica* L. ssp. *monspeliensis* (L.) Aschers. &
Graebn, 2001 J.A. Isaac and C.F. Chuey 13649
- Potentilla recta* L., 2004 J.A. Isaac 17688 Europe
- Potentilla simplex* Michx. var. *simplex*, 1907 O.E. Jennings s.n.
- Prunus americana* Marsh., 1924 O.E. Jennings s.n.
- Prunus pensylvanica* L. f. var. *pensylvanica*, 2005 L. Speedy
LSB327
- Prunus serotina* Ehrh. var. *serotina*, 2005 L. Speedy LSB1081
- Prunus virginiana* L. var. *virginiana*, 2004 J.A. Isaac 17591
- Rosa carolina* L. var. *carolina*, 1973 R.C. Leberman s.n.
- Rosa eglanteria* L., 1907 J.A. Shafer s.n. Europe
- Rosa micrantha* Borrer ex Sm., 1954 W.E. Baker s.n. Europe
- Rosa multiflora* Thunb. ex Murr., 2005 L. Speedy LSB1124
Asia
- Rosa palustris* Marsh., 1997 J.A. Isaac 9866
- Rubus allegheniensis* Porter var. *allegheniensis*, 2004 S.P. Grund
and L. Miller 3617
- Rubus canadensis* L., 1927 J. Bright s.n.
- Rubus flagellaris* Willd., 1955 H.A. Davis and T. Davis 10981
- Rubus hispida* L., 2005 L. Speedy LSB763

Rubus idaeus L. ssp. *strigosus* (Michx.) Focke, 1992 J.K. Bissell et al. 1992:064
Rubus ithacanus Bailey, 1955 H.A. Davis and T. Davis 10982
Rubus laudatus Berger, 1955 H.A. Davis and T. Davis 10971
Rubus occidentalis L., 1980 C.E. Jenkins and F.Q. Jenkins 2861
Rubus odoratus L. var. *odoratus*, 1980 R.C. Leberman s.n.
Rubus pensylvanicus Poir., 2004 S.P. Grund and L. Miller 3527
Rubus pergratus Blanch., 1955 H.A. Davis and T. Davis 10962
Rubus plicatifolius Blanch., 1955 H.A. Davis and T. Davis 10961
Rubus pubescens Raf. var. *pubescens*, 2005 L. Speedy LSB1135
Rubus roribaccus (Bailey) Rydb., 1904 O.E. Jennings s.n.
Rubus uvidus Bailey, 1955 H.A. Davis and T. Davis 10972
Rubus wheeleri (Bailey) Bailey, 1955 H.A. Davis and T. Davis 10973
Sanguisorba canadensis L., 1987 J.K. Bissell and B. Danielson 1987:269
Sorbus americana Marsh., 1915 J. Bright s.n.
Sorbus decora (Sarg.) Schneid., 1992 J.K. Bissell and B. Danielson 92:173 G4G5:S1
Spiraea alba Du Roi var. *latifolia* (Ait.) Dippel, 1991 R.C. Leberman s.n.
Spiraea tomentosa L., 2005 L. Speedy LSB1602
Waldsteinia fragarioides (Michx.) Tratt. ssp. *fragarioides*, 2004 J.A. Isaac 17334

Rubiaceae

Cephaelanthus occidentalis L., 2005 L. Speedy LSB1093
Galium aparine L., 1980 C.E. Jenkins et al. 2812
Galium asprellum Michx., 2004 S.P. Grund and L. Miller 3623
Galium boreale L., 1996 R.C. Leberman s.n.
Galium circaeans Michx. var. *circaeans*, 1981 R.C. Leberman s.n.
Galium circaeans Michx. var. *hypomalacum* Fern., 1932 W.R. VanDersal s.n.
Galium concinnum Torr. & A. Gray, 1952 L.K. Henry and W.E. Baker s.n.
Galium labradoricum (Wieg.) Wieg., 1994 J.K. Bissell et al. 94:024 G5:S1
Galium lanceolatum Torr., 1942 Richard W. Pohl 3976
Galium obtusum Bigelow ssp. *obtusum*, 2005 L. Speedy LSB1088
Galium palustre L., 2004 L. Miller and S.P. Grund 25
Galium pilosum Aiton, 1969 W.E. Baker s.n.
Galium tinctorium (L.) Scop., 2005 L. Speedy LSB734
Galium trifidum L. ssp. *trifidum*, 1993 J.K. Bissell and B. Danielson 1993:188 G5:S2
Galium triflorum Michx., 2005 L. Speedy LSB319
Houstonia caerulea L., 1905 O.E. Jennings s.n.
Mitchella repens L., 2005 L. Speedy LSB748

Salicaceae

Populus alba L., 1985 J.K. Bissell 85:055 Eurasia
Populus deltoides Bartr. ex Marsh. ssp. *deltoides*, 1930 O.E. Jennings and G.K. Jennings s.n.
Populus grandidentata Michx., 1933 O.E. Jennings s.n.
Populus tremuloides Michx., 1997 R.C. Leberman s.n.

Populus × jackii Sarg., [*balsamifera* × *deltoides*] 1990 A.W. Cusick 29024
Salix alba L., 2004 L. Miller and S.P. Grund 54 Eurasia
Salix amygdaloïdes Andersson, 2005 L. Speedy LSB1574
Salix bebbiana Sarg., 2004 J.A. Isaac 17541
Salix discolor Muhl., 2005 L. Speedy LSB307-1
Salix eriocephala Michx., 2003 R. Coxe and M. Bradburn s.n.
Salix exigua Nutt., 2003 S. Ernst et al. 74
Salix fragilis L., 2003 S. Ernst et al. 72 Europe
Salix humilis Marsh. var. *humilis*, 1907 O.E. Jennings s.n.
Salix interior Rowlee, 2004 L. Miller and S.P. Grund 42
Salix lucida Muhl. ssp. *lucida*, 1988 J.K. Bissell and B. Danielson 1988:86
Salix myricoides Muhl. var. *albovestita* (Ball) Dorn, 1933 O.E. Jennings s.n. G4:S2
Salix nigra Marsh., 2003 S. Ernst et al. 73
Salix petiolaris Sm., 1994 J.K. Bissell et al. 94:048 G5:SNA
Salix purpurea L., 1933 O.E. Jennings s.n. Europe
Salix sericea Marsh., 2003 S. Ernst et al. 96
Salix serissima (Bailey) Fern., 2001 J.A. Isaac and C.F. Chuey 13650 G4:S2

Sarraceniaceae

Sarracenia purpurea L. var. *gibbosa* (Raf.) Wherry, 1929 O.E. Jennings s.n.

Saururaceae

Saururus cernuus L., 2003 S. Ernst et al. 144

Saxifragaceae

Chrysosplenium americanum Schewein. ex Hook., 2004 J.A. Isaac 17328
Heuchera americana L. var. *americana*, 1979 R.C. Leberman s.n.
Hydrangea arborescens L., 1966 R.C. Leberman s.n.
Mitella diphylla L., 2005 L. Speedy LSB760
Penthorum sedoides L., 2004 S.P. Grund and L. Miller 3624
Ribes americanum P. Mill., 2005 L. Speedy LSB721
Ribes cynosbati L., 1997 R.C. Leberman s.n.
Ribes glandulosum Grauer, 1915 J. Bright s.n.
Ribes hirtellum Michx., 2004 J.K. Bissell 2004:089
Ribes lacustre (Pers.) Poir., 1966 R.C. Leberman s.n. G5:S1
Ribes rotundifolium Michx., 1924 O.E. Jennings s.n.
Ribes rubrum L., 2004 J.A. Isaac 17345 Eurasia
Ribes triste Pall., 2004 J.A. Isaac 17365 G5:S2
Saxifraga pensylvanica L., 2004 J.A. Isaac 17349
Saxifraga virginiensis Michx. var. *virginensis*, 1971 W.E. Baker s.n.
Tiarella cordifolia L. var. *cordifolia*, 2004 J.A. Isaac 17362

Scrophulariaceae

Aureolaria virginica (L.) Pennell, 1969 R.C. Leberman s.n.
Chaenorhinum minus (L.) Lange, 2004 J.A. Isaac and R. Coxe 17587 Europe
Chelone glabra L., 1994 J.D. Wagner 674
Gratiola neglecta Torr., 1995 R.C. Leberman s.n.
Linaria vulgaris P. Mill., 1928 J.A. Murray s.n. Eurasia
Lindernia dubia (L.) Pennell var. *dubia*, 1988 J.K. Bissell et al. 88:273

- Melampyrum lineare* Desr. var. *americanum*, 1965 J.K. Bissell and B.W. Danielson 1997:069
- Mimulus alatus* Ait., 1959 H.A. Wahl 19405
- Mimulus ringens* L. var. *ringens*, 2004 S.P. Grund and L. Miller 3503
- Nuttallanthus canadensis* (L.) D.A. Sutton, 1952 W.E. Baker s.n. [*Antirrhinum canadensis* L.]
- Pedicularis canadensis* L. spp. *canadensis*, 2004 J.A. Isaac 17462
- Pedicularis lanceolata* Michx., 2004 J.A. Isaac 18462 G5:S1S2
- Penstemon digitalis* Nutt. ex Sims, 1981 R.C. Leberman s.n.
- Penstemon laevigatus* Aiton, 1972 R.C. Leberman s.n. G5:S3
- Scrophularia lanceolata* Pursh, 2004 J.A. Isaac 17608
- Scrophularia marilandica* L., 1970 W.E. Baker s.n.
- Verbascum blattaria* L., 2004 J.A. Isaac and R. Coxe 17581 Eurasia
- Verbascum thapsus* L., 1963 P.B. Monk s.n. Eurasia
- Veronica americana* Schwein. ex Benth., 2004 J.A. Isaac 17472
- Veronica arvensis* L., 1919 O.E. Jennings s.n. Eurasia
- Veronica chamaedrys* L., 1996 J.K. Bissell et al. 1996:091 Eurasia
- Veronica officinalis* L. var. *officinalis*, 2004 J.A. Isaac 17459 Europe
- Veronica peregrina* L. ssp. *xalapensis* (Kunth) Pennell, 2004 J.A. Isaac 17353
- Veronica persica* Poir., 1919 H.W. Mossman s.n. Eurasia
- Veronica scutellata* L., 1997 J.K. Bissell and G. Buckley 1997:103
- Veronica serpyllifolia* L. ssp. *serpyllifolia*, 1924 O.E. Jennings s.n. Europe
- Veronicastrum virginicum* (L.) Farw., 1962 R.C. Leberman s.n.
- Smilacaceae**
- Smilax herbacea* L., 1995 R.C. Leberman s.n.
- Smilax rotundifolia* L., 1919 O.E. Jennings s.n.
- Smilax tamnoides* L., 1981 R.C. Leberman s.n.
- Solanaceae**
- Physalis heterophylla* Nees var. *heterophylla*, 1948 W.E. Baker s.n.
- Solanum carolinense* L. var. *carolinense*, 1998 R. Leberman s.n.
- Solanum dulcamara* L. var. *dulcamara*, 2005 L. Speedy LSB726 Eurasia
- Sparganiaceae**
- Sparganium americanum* Nutt., 2004 S.P. Grund and L. Miller 3485
- Sparganium erectum* L. ssp. *stoloniferum* (Graebn.) Hara, 2004 J.A. Isaac 18473
- Sparganium eurycarpum* Engelm. ex Gray, 2005 L. Speedy LSB729
- Staphyleaceae**
- Staphylea trifolia* L., 1997 R.C. Leberman s.n.
- Thymelaeaceae**
- Dirca palustris* L., 2004 J.A. Isaac 18469
- Tiliaceae**
- Tilia americana* L. var. *americana*, 1997 R.C. Leberman s.n.

Typhaceae

- Typha angustifolia* L., 2005 J.K. Bissell 2005:043 Exotic
- Typha latifolia* L., 2005 L. Speedy LSB740
- Typha × glauca* Godr. (pro sp.) [angustifolia or domingensis], 1988 J.K. Bissell 1988:141

Ulmaceae

- Ulmus americana* L., 2004 S.P. Grund and L. Miller 3663
- Ulmus rubra* Muhl., 2004 S.P. Grund and L. Miller 3537

Urticaceae

- Boehmeria cylindrica* (L.) Sw., 2004 S.P. Grund and L. Miller 3492
- Laportea canadensis* (L.) Wedd., 1909 O.E. Jennings s.n.
- Pilea fontana* (Lunell) Rydb., 2005 L. Speedy LSB1561
- Pilea pumila* (L.) Gray var. *pumila*, 2004 S.P. Grund and L. Miller 3611
- Urtica dioica* L. ssp. *gracilis* (Ait.) Seland., 1944 O.E. Jennings s.n.

Valerianaceae

- Valeriana officinalis* L., 2004 J.A. Isaac 17613 Eurasia

Verbenaceae

- Phyla lanceolata* (Michx.) Greene, 2000 J.K. Bissell and P. Houghton 2000:086
- Verbena hastata* L. var. *hastata*, 2004 S.P. Grund and L. Miller 3491
- Verbena urticifolia* L. var. *urticifolia*, 1901 J.A. Shafer s.n.
- Verbena × engelmannii* Moldenke [hastata × *urticifolia*], 1901 J.A. Shafer s.n.

Violaceae

- Viola arvensis* Murr., 1947 W.E. Baker s.n. Europe
- Viola blanda* Willd. var. *blanda*, 2004 J.A. Isaac 17493
- Viola canadensis* L. var. *canadensis*, 1930 W.R. VanDersal 1301
- Viola cucullata* Ait., 2005 L. Speedy LSB316
- Viola hastata* Michx., 2004 J.A. Isaac 17324
- Viola labradorica* Schrank, 2005 L. Speedy LSB317
- Viola macloskeyi* Lloyd ssp. *pallens* (Banks ex Ging) M.S. Baker, 2004 J.A. Isaac 17322

- Viola pubescens* Ait. var. *pubescens*, 1942 O.E. Jennings s.n.
- Viola pubescens* Ait. var. *scabriuscula* Schwein. ex Torr. & A. Gray, 1993 J.A. Isaac 4629

- Viola rostrata* Pursh, 2004 J.A. Isaac 17323

- Viola rotundifolia* Michx., 1952 L.K. Henry and W.E. Baker s.n.

- Viola sororia* Willd., 2005 L. Speedy LSB313

- Viola striata* Ait., 2004 J.A. Isaac 17347

- Viola × bisselli* House [cucullata × *sororia*], 1955 L.K. Henry s.n.

Vitaceae

- Parthenocissus quinquefolia* (L.) Planch., 2005 L. Speedy LSB728
- Parthenocissus vitacea* (Knerr) A.S. Hitchc., 1990 A.W. Cusick 29027 [*Ampelopsis quinquefolia* var. *vitacea* Knerr]
- Vitis aestivalis* Michx. var. *bicolor* Deam, 1997 R.C. Leberman s.n.
- Vitis riparia* Michx., 2005 L. Speedy LSB722

Zannichelliaceae

Zannichellia palustris L., 1881 J. Whitesides s.n.

GYMNOSPERMS**Pinaceae**

- Larix decidua* P. Mill, 2005 R. Thompson 05-1066 Europe
Larix laricina (Du Roi) K. Koch, 1997 J.K. Bissell and B. Gordon 1997:106
Pinus banksiana Lamb., 2005 L. Speedy LSB326
Pinus strobus L., 2005 L. Speedy LSB321
Pinus sylvestris L., 1975 W.E. Baker s.n. Eurasia
Tsuga canadensis (L.) Carr., 2005 L. Speedy LSB1083-2

Taxaceae

- Taxus canadensis* Marsh., 1999 J.K. Bissell 1999:091

LYCOPHYTES**Lycopodiaceae**

- Huperzia lucidula* (Michx.) Trevisan, 2004 J.A. Isaac 17326
Lycopodium annotinum L., 1990 J.K. Bissell and B. Danielson 1990:196
Lycopodium clavatum L., 1984 J.K. Bissell 1984:106
Lycopodium dendroideum Michx., 1966 R.C. Leberman s.n.
Lycopodium digitatum Dill. ex A. Braun, 2005 L. Speedy LSB1133
Lycopodium hickeyi W.H. Wagner, Beitel & Moran, 1965 D.L. Pearth s.n.
Lycopodium obscurum L., 2005 L. Speedy LSB1090
Lycopodium tristachyum Pursh, 1962 R.C. Leberman s.n.
Lycopodium × habereri House [*digitatum* × *tristachyum*], 1997 J.K. Bissell and G. Buckley 1997:156

Lygodiaceae

- Lygodium palmatum* (Bernh.) Sw., 1968 R.C. Leberman s.n.

PTERIDOPHYTES**Aspleniaceae**

- Asplenium platyneuron* (L.) B.S.P. var. *platyneuron*, 1991 B.L. Isaac and J.A. Isaac 3550

Blechnaceae

- Woodwardia virginica* (L.) Sm., 2004 J.A. Isaac 18476

Dennstaedtiaceae

- Dennstaedtia punctilobula* (Michx.) T. Moore, 1997 R.C. Leberman s.n.

- Pteridium aquilinum* (L.) Kuhn var. *latiusculum* (Desv.) Underwood ex Heller, 2004 S.P. Grund and L. Miller 3666

Dryopteridaceae

- Athyrium filix-femina* (L.) Roth ssp. *angustum* (Willd.) Clausen, 1984 J.K. Bissell 1984:126

- Cystopteris bulbifera* (L.) Bernh., 1965 J. Stull and D. Stull s.n.

- Cystopteris tenuis* (Michx.) Desv., 1982 R.C. Leberman s.n.

- Deparia acrostichoides* (Sw.) M. Kato, 1984 J.K. Bissell 1984:126

- Diplazium pycnocarpon* (Spreng.) Broun, 2004 J.A. Isaac 18430

Dryopteris carthusiana (Vill.) H.P. Fuchs, 2004 S.P. Grund and L. Miller 3542

Dryopteris clintoniana (D.C. Eat.) Dowell, 2004 J.A. Isaac 18465 G5:S2

Dryopteris cristata (L.) Gray, 2005 L. Speedy, M. Bowers and M. Fodse LSB1621

Dryopteris goldiana (Hook. ex Goldie) Gray, 2004 J.A. Isaac et al. 17718

Dryopteris intermedia (Muhl. ex Willd.) Gray, 2005 L. Speedy LSB750

Dryopteris marginalis (L.) Gray, 1962 R.C. Leberman s.n.

Dryopteris × boottii (Tuck.) Underwood (pro sp.) [*cristata* ×, 2004 J.A. Isaac 18467

Dryopteris × triploidea Wherry [*carthusiana* × *intermedia*], 1984 J.K. Bissell 1984:120

Gymnocarpium dryopteris (L.) Newman, 2004 J.A. Isaac 17498

Matteuccia struthiopteris (L.) Todaro, 2004 J.A. Isaac 18423

Onoclea sensibilis L., 2005 L. Speedy LSB1131

Polypodium appalachianum Haufler & Windham, 1906 O.E. Jennings s.n.

Polypodium virginianum L., 1914 C.A. Darling s.n.
Polystichum acrostichoides (Michx.) Schott var. *acrostichoides*, 2005 L. Speedy LSB746

Equisetaceae

Equisetum arvense L., 1994 J.D. Wagner and J.K. Bissell 344

Equisetum fluviatile L., 2005 L. Speedy, J. Bissell, M. Bowers and T. Pearson LSB1584

Equisetum hyemale L. var. *affine* (Engelm) A.A. Eat., 1970 W.E. Baker s.n.

Equisetum sylvaticum L., 2005 L. Speedy LSB340

Isoetaceae

Isoëtes tenella Léman, 1933 W.R. Van Dersal s.n. [*Isoëtes braunii* Durieu]

Ophioglossaceae

Botrychium dissectum Spreng., 1985 J.K. Bissell and M. Hoberecht 1985:048

Botrychium lanceolatum (Gmel.) Angstr. var. *angustisegmentum* Pease & Moore, 1930 O.E. Jennings and G.K. Jennings s.n.

Botrychium matricariifolium (A. Braun ex Dowell) A. Braun ex Koch, 1993 J.K. Bissell and B. Danielson 1993:091

Botrychium multifidum (Gmel.) Trev., 1984 A.W. Cusick 23366

Botrychium oneidense (Gilbert) House, 1985 J.K. Bissell and M. Hoberecht 1985:048

Botrychium simplex E. Hitchc., 1982 R.C. Leberman s.n. Europe

Botrychium virginianum (L.) Sw., 1984 J.K. Bissell 1984:106

Ophioglossum pusillum Raf., 1939 J. Wurdach s.n.

Ophioglossum vulgatum L., 1970 R.C. Leberman s.n. G5:S4

Osmundaceae

Osmunda cinnamomea L. var. *cinnamomea*, 2005 L. Speedy LSB304

Osmunda claytoniana L., 2004 J.A. Isaac 17470

Osmunda regalis L. var. *spectabilis* (Willd.) Gray, 2005 L. Speedy
LSB 306

Pteridaceae

Adiantum pedatum L., 1997 R.C. Leberman s.n.

Selaginellaceae

Selaginella apoda (L.) Spring, 2004 J.A. Isaac 17486

Thelypteridaceae

Phegopteris connectilis (Michx.) Watt, 1955 L.K. Henry s.n.

Phegopteris hexagonoptera (Michx.) Fée, 1968 R.C. Leberman
s.n.

Thelypteris noveboracensis (L.) Nieuwl., 2005 L. Speedy
LSB751

Thelypteris palustris Schott var. *palustris*, 1999 J.K. Bissell
1999:079

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